107528

APPENDIX D

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB830

BORATORY: IT/CERR
ABORATORY ID: 34887N5
TRIX: SOIL

CASE #/SAS #: 5110
QC REPORT #: 6962-239
CONTRACT #: 6962
DATE RECEIVED: 10/31/85

ATA RELEASE AUTHORIZED BY: John Byrne

VOLATILE COMPOUNDS

LEVEL:	LOW
DATE EXT/PREP:	11/09/85
DATE ANALYZED:	11/09/85
SPL-->EXTRACT:	1.014G
PH:	7.6
% MOISTURE (NOT DEC.):	21.39
% MOISTURE (DEC.):	Not Analyzed
STANDARD ID:	VOA512
SENSITIVITY ID:	BFD456
UNITS:	UG/KG

#	CAS #		CONC	
V	74-87-3	CHLOROMETHANE	50.	U
V	74-83-9	BROMOMETHANE	50.	U
38V	75-01-4	VINYL CHLORIDE	50.	U
4V	75-00-3	CHLOROETHANE	50.	U
V	75-09-2	METHYLENE CHLORIDE	52.	B
H	67-64-1	ACETONE	50.	U
5H	75-15-0	CARBON DISULFIDE	30.	U
V	75-35-4	1,1-DICHLOROETHENE	30.	U
V	75-34-3	1,1-DICHLOROETHANE	30.	U
30V	156-60-5	TRANS-1,2-DICHLOROETHENE	30.	U
V	67-66-3	CHLOROFORM	30.	U
V	107-06-2	1,2-DICHLOROETHANE	30.	U
4H	78-93-3	2-BUTANONE	50.	U
1V	71-55-6	1,1,1-TRICHLOROETHANE	30.	U
V	56-23-5	CARBON TETRACHLORIDE	30.	U
H	108-05-4	VINYL ACETATE	50.	U
8V	75-27-4	BROMODICHLOROMETHANE	30.	U
V	78-87-5	1,2-DICHLOROPROPANE	30.	U
VT	10061-02-6	TRANS-1,3-DICHLOROPROPENE	30.	U
37V	79-01-6	TRICHLOROETHENE	30.	U
1V	124-48-1	CHLORODIBROMOMETHANE	30.	U
V	79-00-5	1,1,2-TRICHLOROETHANE	30.	U
V	71-43-2	BENZENE	30.	U
3VC	10061-01-5	CIS-1,3-DICHLOROPROPENE	30.	U
V	110-75-8	2-CHLOROETHYLVINYL ETHER	50.	U
V	75-25-2	BROMOFORM	30.	U
6H	519-78-6	2-HEXANONE	50.	U
H	108-10-1	4-METHYL-2-PENTANONE	50.	U
V	127-18-4	TETRACHLOROETHENE	30.	U
5V	79-34-5	1,1,2,2-TETRACHLOROETHANE	30.	U
4V	108-88-3	TOLUENE	30.	U
V	108-90-7	CHLOROBENZENE	30.	U
V	100-41-4	ETHYLBENZENE	30.	U
3H	100-42-5	STYRENE	30.	U
H	95-47-6	TOTAL XYLENES	30.	U

AR100201

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB830

[redacted]ATORY: IT/CERR
[redacted]RATORY ID: 34887814
MATRIX: SOIL

CASE #/SAS #: 5110
QC REPORT #: 6962-239
CONTRACT #: 68-01-6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY:

SEMIVOLATILE COMPOUNDS (PAGE 1)

LEVEL:	LOW	GPC	Y_ N X
DATE EXT/PREP.	11/08/85	SEP. FUNNEL	Y_ N X
DATE ANALYZED:	11/24/85	CONT. EXT.	Y_ N X
SPL--EXTRACT.	50.01G: 1ML: : 250UL: 1ML		
PH:	7.6		
% MOISTURE (NOT DEC.):	21.39		
% MOISTURE (DEC.):	Not Analyzed		
STANDARD ID:	BNA782		
SENSITIVITY ID:	FSS516		
UNITS:	UG/KG		

PP #	CAS #		CONC	
65A	108-95-2	PHENOL	800.	U
18B	111-44-4	BIS (2-CHLOROETHYL) ETHER	800.	U
24A	95-57-8	2-CHLOROPHENOL	800.	U
26B	541-73-1	1,3-DICHLOROBENZENE	800.	U
2[redacted]	106-46-7	1,4-DICHLOROBENZENE	800.	U
[redacted]	100-51-6	BENZYL ALCOHOL	800.	U
25B	95-50-1	1,2-DICHLOROBENZENE	800.	U
2H	95-48-7	2-METHYLPHENOL	800.	U
42B	39638-32-9	BIS (2-CHLOROISOPROPYL) ETHER	800.	U
3H	106-44-5	4-METHYLPHENOL	800.	U
53B	621-64-7	N-NITROSO-DI-N-PROPLYAMINE	800.	U
12B	67-72-1	HEXACHLOROETHANE	800.	U
56B	98-95-3	NITROBENZENE	800.	U
54B	78-59-1	ISOPHORONE	800.	U
57A	88-75-5	2-NITROPHENOL	800.	U
34A	105-67-9	2,4-DIMETHYLPHENOL	800.	U
1H	65-85-0	BENZOIC ACID	4000.	U
43B	111-91-1	BIS (2-CHLOROETHOXY) METHANE	800.	U
31A	120-83-2	2,4-DICHLOROPHENOL	800.	U
8B	120-82-1	1,2,4-TRICHLOROBENZENE	800.	U
55B	91-20-3	NAPHTHALENE	110.	J
7H	106-47-8	4-CHLOROANILINE	800.	U
52B	87-68-3	HEXACHLOROBUTADIENE	800.	U
22A	59-50-7	4-CHLORO-3-METHYLPHENOL	800.	U
9H	91-57-6	2-METHYLNAPHTHALENE	800.	U
53B	77-47-4	HEXACHLOROCYCLOPENTADIENE	800.	U
31A	88-06-2	2,4,6-TRICHLOROPHENOL	800.	U
4H	95-95-4	2,4,5-TRICHLOROPHENOL	4000.	U
30B	91-58-7	2-CHLORONAPHTHALENE	800.	U
10[redacted]	88-74-4	2-NITROANILINE	4000.	U
7[redacted]	131-11-3	DIMETHYLPHTHALATE	800.	U
77B	208-96-8	ACENAPHTHALENE	800.	U
11H	99-09-2	3-NITROANILINE	4000.	U
1B	83-32-9	ACENAPHTHENE	800.	U
59A	51-28-5	2,4-DINITROPHENOL	4000.	U

AR100202

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB830

LABORATORY: IT/CERR
LABORATORY ID: 24887314
MATRIX: SOIL

CASE #/SAS #: 5110
QC REPORT #: 6962-239
CONTRACT #: 68-01-6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY: [signature]

SEMIVOLATILE COMPOUNDS (PAGE 2)

LEVEL:	LOW	GPC	Y_ N X
DATE EXT/PREP:	11/08/85	SEP. FUNNEL	Y_ N X
DATE ANALYZED:	11/24/85	CONT. EXT.	Y_ N X
SPL--EXTRACT:	50.01G: 1ML: : 250UL: 1ML		
PH:	7.6		
% MOISTURE (NOT DEC.):	21.39		
% MOISTURE (DEC.):	Not Analyzed		
STANDARD ID:	BNA782		
SENSITIVITY ID:	FSS516		
UNITS:	UG/KG		

PP #	CAS #		CONC
58A	100-02-7	4-NITROPHENOL	4000. U
8H	132-64-9	DIBENZOFURAN	800. U
35B	121-14-2	2,4-DINITROTOLUENE	800. U
36B	606-20-2	2,6-DINITROTOLUENE	800. U
70B	84-66-2	DIETHYLPHTHALATE	800. U
40B	7005-72-3	4-CHLOROPHENYLPHENYL ETHER	800. U
80B	86-73-7	FLUORENE	800. U
12H	100-01-6	4-NITROANILINE	4000. U
60A	534-52-1	4,6-DINITRO-O-CRESOL	4000. U
62B	86-30-6	N-NITROSODIPHENYLAMINE	800. U
41B	101-55-3	4-BROMOPHENOXYBENZENE	800. U
9B	118-74-1	HEXACHLOROBENZENE	800. U
64A	87-86-5	PENTACHLOROPHENOL	4000. U
81B	85-01-8	PHENANTHRENE	800. U
78B	120-12-7	ANTHRACENE	800. U
68B	84-74-2	DI-N-BUTYLPHTHALATE	800. U
39B	206-44-0	FLUORANTHENE	110. J
84B	129-00-0	PYRENE	800. U
67B	85-68-7	BUTYLBENZYLPHTHALATE	800. U
28B	91-94-1	3,3'-DICHLOROBENZIDINE	2000. U
72B	56-55-3	BENZO (A) ANTHRACENE	800. U
66B	117-81-7	BIS (2-ETHYLHEXYL) PHTHALATE	2000.
76B	218-01-9	CHRYSENE	800. U
69B	117-84-0	DI-N-OCTYLPHTHALATE	800. U
74B	205-99-2	BENZO (B & K) FLUORANTHENE	800. U
73B	50-32-8	BENZO (A) PYRENE	800. U
83B	193-39-5	INDENO-1,2,3 (C,D) PYRENE	800. U
82B	53-70-3	DIBENZO (A,H) ANTHRACENE	800. U
79B	191-24-2	BENZO (G,H,I) PERYLENE	800. U

ALL RESULTS ARE REPORTED ON A WET WEIGHT BASIS.

AR100203

Sample #: CB830 (HQ)

Laboratory: IT/Cerritos
Lab ID: 2317-25
Lab ID for Dil: —
Sample Matrix: Soil
Data Release Authorized by: [signature]

Case #/SAS #: 5110
QC Report #: 6962-239
Contract #: 68-01-6962
Date Rec'd: 10-31-85

Organics Analysis Data Sheet
Pesticide/PCB's

Sample Level: low
Date Extracted: 11-8-85
Date Analyzed: 11-20-85
Spl->Extract: 52.02g->10ml; 5ml->10ml
For Dilution: —
pH: 7.6
% Moisture: 21.39
% Moisture (Decanted): Not Analyzed
Lab Std ID: 2317-4,5

ALL RESULTS ARE REPORTED ON WET WEIGHT BASIS.

Circle Units: (ug/Kg) ug/L

319-84-6	alpha-BHC	2 U
319-85-7	beta-BHC	
319-86-8	delta-BHC	
58-89-9	gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	4 U
72-55-9	4,4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4,4'-DDD	
1031-07-8	Endosulfan Sulfate	
50-29-3	4,4'-DDT	
72-43-5	Methoxychlor	20 U
53494-70-5	Endrin Ketone	4 U
57-74-9	Chlordane	20 U
8001-35-2	Toxaphene	40 U
12674-11-2	Arochlor-1016	20 U
11104-28-2	Arochlor-1221	
11141-16-5	Arochlor-1232	
53469-21-9	Arochlor-1242	
12672-29-6	Arochlor-1248	210 **
11097-69-1	Arochlor-1254	40 U
11096-82-5	Arochlor-1260	160 **

U - Analyzed for but not detected (Reported Value is Detection Limit-DL)
J - Estimated Value (0 < Value < DL)
C - Confirmed by GC/MS-GC Quantitation
B - Compound found in Blank. Sample results are not Blank Corrected.
** - Detected below GC/MS DL-GC Quantitation
N - Not Confirmed by GC/MS-GC/MS DL
NA - Not Analyzed
NR - Not Reported

V_i = Volume of extract injected (ul)
V_s = Volume of water extracted (ml)
W_s = Weight of sample extracted (g)
V_t = Volume of total extract (ul)

V_s — ml or
W_s 50.02 g
V_t 20,000 ul
V_i 5 ul

Surrogate Spike Recoveries — Circle Units: (ug/Kg) ug/L

Lab ID	Fraction	Compound	Conc. Sample	Conc. Spiked	% Recovery
2317-25	Pest.	Dibutyl Chlorendate	34	40	85

AR100854

* - Asterisked Values are outside QC Limits. NS - Not Spiked
\# - _____ Recoveries due to Dilution.
$ - _____ Recoveries due to Matrix Effects.

Rev 8/85

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB830

LABORATORY: IT/CERR
LABORATORY ID: 34887N5
MATRIX: SOIL

CASE #/SAS #: 5110
QC REPORT #: 6962-239
CONTRACT #: 6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY:

VOLATILE COMPOUNDS

SURROGATE SPIKE RECOVERIES

LEVEL:	LOW
DATE EXT/PREP:	11/09/85
DATE ANALYZED:	11/09/85
SPL-->EXTRACT:	1.014G
PH:	7.6
% MOISTURE (NOT DEC.):	21.39
% MOISTURE (DEC.):	Not Analyzed
STANDARD ID:	VOA512
SENSITIVITY ID:	BFD456
UNITS:	UG/KG

LAB ID	COMPOUND	SAMPLE	SPIKED	% RECOVERY
	TOLUENE-D8	253.	250.	101
34887N5	4-BROMOFLUOROBENZENE	251.	250.	100
	1,2-DICHLOROETHANE-D4	259.	250.	104

* - ASTERISKED VALUES ARE OUTSIDE QC LIMITS NS - NOT SPIKED
\# - _____ RECOVERIES DUE TO DILUTION
$ - _____ RECOVERIES DUE TO MATRIX EFFECTS

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	SCAN #	CONC(J)
1		NONE FOUND		
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

AR100205

DATA REPORTING QUALIFIERS

ALUE	IF THE RESULT IS A VALUE GREATER THAN OR EQUAL TO THE DETECTION LIMIT REPORT THE VALUE.
	INDICATES COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM ATTAINABLE DETECTION LIMIT FOR THE SAMPLE.
	INDICATES AN ESTIMATED VALUE. THIS FLAG IS USED EITHER WHEN ESTIMATING A CONCENTRATION FOR TENTATIVELY IDENTIFIED COMPOUNDS WHERE A 1:1 RESPONSE IS ASSUMED OR WHEN THE MASS SPECTRAL DATA INDICATES THE PRESENCE OF A COMPOUND THAT MEETS THE IDENTIFICATION CRITERIA BUT THE RESULT IS LESS THAN THE SPECIFIED DETECTION LIMIT BUT GREATER THAN ZERO.
	THIS FLAG APPLIES TO PESTICIDE PARAMETERS WHERE THE IDENTIFICATION HAS BEEN CONFIRMED BY GCMS. SINGLE COMPONENT PESTICIDES GREATER THAN OR EQUAL TO 10NG/UL IN THE FINAL EXTRACT SHOULD BE CONFIRMED BY GCMS.
	THIS FLAG IS USED WHEN THE ANALYTE IS FOUND IN THE BLANK AS WELL AS IN THE SAMPLE. IT INDICATES POSSIBLE/PROBABLE BLANK COMTAMINATION AND WARNS THE DATA USER TO TAKE APPROPRIATE ACTION.

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB82BRE

LABORATORY: IT/CERP
LABORATORY ID: 34886A82
MATRIX: WATER

CASE #/SAS #: 5110
QC REPORT #: 6962-231
CONTRACT #: 68-01-6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY: Cheryl Wilhite

SEMIVOLATILE COMPOUNDS (PAGE 1)

LEVEL:	LOW	GPC	Y_ N✓
DATE EXT/PREP:	12/03/85	SEP. FUNNEL	Y_ N✓
DATE ANALYZED:	01/03/86	CONT. EXT.	Y✓ N_
SPL-->EXTRACT:	1L:2ML		
PH:	NA	Sample Originally Extracted: 11/3/85	
% MOISTURE (NOT DEC.):	NA		
% MOISTURE (DEC.):	NA	Re-Extracted Due To: low Phenol ds and 2-fluorophenol	
STANDARD ID:	BNA853		
SENSITIVITY ID:	FSS568		
UNITS:	UG/L		

PP #	CAS #		CONC
65A	108-95-2	PHENOL	20. U
18B	111-44-4	BIS (2-CHLOROETHYL) ETHER	20. U
24A	95-57-8	2-CHLOROPHENOL	20. U
26B	541-73-1	1,3-DICHLOROBENZENE	20. U
27B	106-46-7	1,4-DICHLOROBENZENE	20. U
6H	100-51-6	BENZYL ALCOHOL	20. U
25B	95-50-1	1,2-DICHLOROBENZENE	20. U
2H	95-48-7	2-METHYLPHENOL	20. U
42B	39638-32-9	BIS (2-CHLOROISOPROPYL) ETHER	20. U
3H	106-44-5	4-METHYLPHENOL	20. U
63B	621-64-7	N-NITROSO-DI-N-PROPLYAMINE	20. U
12B	67-72-1	HEXACHLOROETHANE	20. U
56B	98-95-3	NITROBENZENE	20. U
54B	78-59-1	ISOPHORONE	20. U
57A	88-75-5	2-NITROPHENOL	20. U
34A	105-67-9	2,4-DIMETHYLPHENOL	20. U
1H	65-85-0	BENZOIC ACID	100. U
43B	111-91-1	BIS (2-CHLOROETHOXY) METHANE	20. U
31A	120-33-2	2,4-DICHLOROPHENOL	20. U
8B	120-82-1	1,2,4-TRICHLOROBENZENE	20. U
55B	91-20-3	NAPHTHALENE	20. U
7H	106-47-8	4-CHLOROANILINE	20. U
52B	87-68-3	HEXACHLOROBUTADIENE	20. U
22A	59-50-7	4-CHLORO-3-METHYLPHENOL	20. U
9H	91-57-6	2-METHYLNAPHTHALENE	20. U
53B	77-47-4	HEXACHLOROCYCLOPENTADIENE	20. U
21A	88-06-2	2,4,6-TRICHLOROPHENOL	20. U
4H	95-95-4	2,4,5-TRICHLOROPHENOL	100. U
20B	91-58-7	2-CHLORONAPHTHALENE	20. U
10H	88-74-4	2-NITROANILINE	100. U
71B	131-11-3	DIMETHYLPHTHALATE	20. U
77B	208-96-8	ACENAPHTHALENE	20. U
11H	99-09-2	3-NITROANILINE	100. U
1B	83-32-9	ACENAPHTHENE	20. U
59A	51-28-5	2,4-DINITROPHENOL	100. U

ORGANICS ANALYSIS DAT SHEET SAMPLE #: CB828RE

LABORATORY: IT/CERR
LABORATORY ID: C4886AB2
MATRIX: WATER
CASE #/SAS #: 5110
QC REPORT #: 6962-231
CONTRACT #: 68-01-6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY: Cheryl Wurtz

SEMIVOLATILE COMPOUNDS (PAGE 2)

LEVEL:	LOW	GPC	Y_ N✓
DATE EXT/PREP:	12/03/85	SEP. FUNNEL	Y_ N✓
DATE ANALYZED:	01/03/86	CONT. EXT.	Y✓ N_
SPL-->EXTRACT:	1L:2ML		
PH:	NA		
% MOISTURE (NOT DEC.):	NA		
% MOISTURE (DEC.):	NA		
STANDARD ID:	BNAB53		
SENSITIVITY ID:	FSS568		
UNITS:	UG/L		

Sample Originally Extracted: 11/3/85
Re-Extracted Due To: low Phenol-d5 and 2-fluorophenol

CP #	CAS #		CONC
68A	100-02-7	4-NITROPHENOL	100. U
8H	132-64-9	DIBENZOFURAN	20. U
35B	121-14-2	2,4-DINITROTOLUENE	20. U
36B	606-20-2	2,6-DINITROTOLUENE	20. U
70	84-66-2	DIETHYLPHTHALATE	20. U
40	7005-72-3	4-CHLOROPHENYLPHENYL ETHER	20. U
30B	86-73-7	FLUORENE	20. U
.2H	100-01-6	4-NITROANILINE	100. U
60A	534-52-1	4,6-DINITRO-O-CRESOL	100. U
62B	86-30-6	N-NITROSODIPHENYLAMINE	20. U
41B	101-55-3	4-BROMOPHENOXYBENZENE	20. U
9B	118-74-1	HEXACHLOROBENZENE	20. U
64A	87-86-5	PENTACHLOROPHENOL	100. U
31B	85-01-8	PHENANTHRENE	20. U
78B	120-12-7	ANTHRACENE	20. U
68B	84-74-2	DI-N-BUTYLPHTHALATE	20. U
9B	206-44-0	FLUORANTHENE	20. U
34B	129-00-0	PYRENE	20. U
67B	85-68-7	BUTYLBENZYLPHTHALATE	20. U
8B	91-94-1	3,3'-DICHLOROBENZIDINE	40. U
72B	56-55-3	BENZO (A) ANTHRACENE	20. U
66B	117-81-7	BIS (2-ETHYLHEXYL) PHTHALATE	20. U
76B	218-01-9	CHRYSENE	20. U
69B	117-84-0	DI-N-OCTYLPHTHALATE	20. U
74B	205-99-2	BENZO (B & K) FLUORANTHENE	20. U
73B	50-32-8	BENZO (A) PYRENE	20. U
03B	193-39-5	INDENO-1,2,3 (C,D) PYRENE	20. U
82B	53-70-3	DIBENZO (A,H) ANTHRACENE	20. U
79B	191-24-2	BENZO (G,H,I) PERYLENE	20. U

ALL RESULTS ARE REPORTED ON A WET WEIGHT BASIS.

AR100208

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB826RE

LABORATORY: IT/CERR
LABORATORY ID: 34886AB2
MATRIX: WATER

CASE #/SAS #: 5110
QC REPORT #: 6962-231
CONTRACT #: 68-01-6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY: Cheryl Wehrli

SEMIVOLATILE COMPOUNDS
SURROGATE SPIKE RECOVERIES

LEVEL:	LOW	GPC	Y_ N✓
DATE EXT/PREP:	12/03/85	SEP. FUNNEL	Y_ N✓
DATE ANALYZED:	01/03/86	CONT. EXT.	Y✓ N_
SPL--EXTRACT:	1L:2ML		
PH:	NA	Sample Originally Extracted: 11/3/85	
% MOISTURE (NOT DEC.):	NA	Re-Extracted Due To: low Phenols and 2-fluorophenol	
% MOISTURE (DEC.):	NA		
STANDARD ID:	BNA853		
SENSITIVITY ID:	FSS568		
UNITS:	UG/L		

LAB ID	COMPOUND	SAMPLE	SPIKED	% RECOVERY
	NITROBENZENE-D5	3. J	103.	3 *
	2-FLUOROBIPHENYL	6. J	104.	6 *
34886AB2	P-TERPHENYL-D14	20. U	104.	0 *
	PHENOL-D5	20. U	207.	0 *
	2-FLUOROPHENOL	20. U	204.	0 *
	2,4,6-TRIBROMOPHENOL	20. U	206.	0 *

* - ASTERISKED VALUES ARE OUTSIDE QC LIMITS NS - NOT SPIKED
# - _____ RECOVERIES DUE TO DILUTION
$ - _____ RECOVERIES DUE TO MATRIX EFFECTS

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	SCAN #	CONC(J)
1	-	Unsaturated Hydrocarbon	1859	10
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				AR100209
17				
18				
19				
20				
21				
22				

DATA REPORTING QUALIFIERS

ALUE	IF THE RESULT IS A VALUE GREATER THAN OR EQUAL TO THE DETECTION LIMIT REPORT THE VALUE.
	INDICATES COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM ATTAINABLE DETECTION LIMIT FOR THE SAMPLE.
	INDICATES AN ESTIMATED VALUE. THIS FLAG IS USED EITHER WHEN ESTIMATING A CONCENTRATION FOR TENTATIVELY IDENTIFIED COMPOUNDS WHERE A 1:1 RESPONSE IS ASSUMED OR WHEN THE MASS SPECTRAL DATA INDICATES THE PRESENCE OF A COMPOUND THAT MEETS THE IDENTIFICATION CRITERIA BUT THE RESULT IS LESS THAN THE SPECIFIED DETECTION LIMIT BUT GREATER THAN ZERO.
	THIS FLAG APPLIES TO PESTICIDE PARAMETERS WHERE THE IDENTIFICATION HAS BEEN CONFIRMED BY GCMS. SINGLE COMPONENT PESTICIDES GREATER THAN OR EQUAL TO 10NG/UL IN THE FINAL EXTRACT SHOULD BE CONFIRMED BY GCMS.
	THIS FLAG IS USED WHEN THE ANALYTE IS FOUND IN THE BLANK AS WELL AS IN THE SAMPLE. IT INDICATES POSSIBLE/PROBABLE BLANK COMTAMINATION AND WARNS THE DATA USER TO TAKE APPROPRIATE ACTION.

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB828RE

LABORATORY: IT/CERP
LABORATORY ID: 34886422
MATRIX: WATER

CASE #/SAS #: 5110
QC REPORT #: 6962-231
CONTRACT #: 68-01-6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY: Cheryl Wehrle

SEMIVOLATILE COMPOUNDS (PAGE 1)

LEVEL:	LOW	GPC	Y_ N✓
DATE EXT/PREP:	12/03/85	SEP. FUNNEL	Y_ N✓
DATE ANALYZED:	01/03/86	CONT. EXT.	Y✓ N_
SPL-->EXTRACT:	1L:2ML		
PH:	NA	Sample Originally	
% MOISTURE (NOT DEC.):	NA	Extracted: 11/3/85	
% MOISTURE (DEC.):	NA	Re-Extracted Due To:	
STANDARD ID:	BNA853	low Phenol d5	
SENSITIVITY ID:	FSS568	and 2-fluorophenol	
UNITS:	UG/L		

PP #	CAS #		CONC
65A	108-95-2	PHENOL	20. U
18B	111-44-4	BIS (2-CHLOROETHYL) ETHER	20. U
24A	95-57-8	2-CHLOROPHENOL	20. U
26B	541-73-1	1,3-DICHLOROBENZENE	20. U
27B	106-46-7	1,4-DICHLOROBENZENE	20. U
6H	100-51-6	BENZYL ALCOHOL	20. U
25B	95-50-1	1,2-DICHLOROBENZENE	20. U
2H	95-48-7	2-METHYLPHENOL	20. U
42B	39638-32-9	BIS (2-CHLOROISOPROPYL) ETHER	20. U
3H	106-44-5	4-METHYLPHENOL	20. U
63B	621-64-7	N-NITROSO-DI-N-PROPLYAMINE	20. U
12B	67-72-1	HEXACHLOROETHANE	20. U
56B	98-95-3	NITROBENZENE	20. U
54B	78-59-1	ISOPHORONE	20. U
57A	88-75-5	2-NITROPHENOL	20. U
34A	105-67-9	2,4-DIMETHYLPHENOL	20. U
1H	65-85-0	BENZOIC ACID	100. U
43B	111-91-1	BIS (2-CHLOROETHOXY) METHANE	20. U
31A	120-33-2	2,4-DICHLOROPHENOL	20. U
8B	120-82-1	1,2,4-TRICHLOROBENZENE	20. U
55B	91-20-3	NAPHTHALENE	20. U
7H	106-47-8	4-CHLOROANILINE	20. U
52B	87-68-3	HEXACHLOROBUTADIENE	20. U
22A	59-50-7	4-CHLORO-3-METHYLPHENOL	20. U
9H	91-57-6	2-METHYLNAPHTHALENE	20. U
53B	77-47-4	HEXACHLOROCYCLOPENTADIENE	20. U
21A	88-06-2	2,4,6-TRICHLOROPHENOL	20. U
4H	95-95-4	2,4,5-TRICHLOROPHENOL	100. U
20B	91-58-7	2-CHLORONAPHTHALENE	20. U
10H	88-74-4	2-NITROANILINE	100. U
71B	131-11-3	DIMETHYLPHTHALATE	20. U
77B	208-96-8	ACENAPHTHALENE	20. U
11H	99-09-2	3-NITROANILINE	100. U
1B	83-32-9	ACENAPHTHENE	20. U
59A	51-28-5	2,4-DINITROPHENOL	100. U

PR 00211

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB828RE

LABORATORY: IT/CERP
LABORATORY ID: 34886AB2
MATRIX: WATER
CASE #/SAS #: 5110
QC REPORT #: 6962-231
CONTRACT #: 68-01-6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY: Cheryl Wentzel

SEMIVOLATILE COMPOUNDS (PAGE 2)

LEVEL:	LOW	GPC	Y_ N✓
DATE EXT/PREP:	12/03/85	SEP. FUNNEL	Y_ N✓
DATE ANALYZED:	01/03/86	CONT. EXT.	Y✓ N_
SPL-->EXTRACT:	1L:2ML		
PH:	NA		
% MOISTURE (NOT DEC.):	NA		
% MOISTURE (DEC.):	NA		
STANDARD ID:	BNA853		
SENSITIVITY ID:	FSS568		
UNITS:	UG/L		

Sample Originally Extracted: 11/3/85
Re-Extracted Due To: low Phenol-d5 and 2-fluorophenol

GP #	CAS #		CONC
58A	100-02-7	4-NITROPHENOL	100. U
8H	132-64-9	DIBENZOFURAN	20. U
35B	121-14-2	2,4-DINITROTOLUENE	20. U
36B	606-20-2	2,6-DINITROTOLUENE	20. U
70	84-66-2	DIETHYLPHTHALATE	20. U
4	7005-72-3	4-CHLOROPHENYLPHENYL ETHER	20. U
30B	86-73-7	FLUORENE	20. U
12H	100-01-6	4-NITROANILINE	100. U
60A	534-52-1	4,6-DINITRO-O-CRESOL	100. U
62B	86-30-6	N-NITROSODIPHENYLAMINE	20. U
41B	101-55-3	4-BROMOPHENOXYBENZENE	20. U
9B	118-74-1	HEXACHLOROBENZENE	20. U
64A	87-86-5	PENTACHLOROPHENOL	100. U
31B	85-01-8	PHENANTHRENE	20. U
78B	120-12-7	ANTHRACENE	20. U
68B	84-74-2	DI-N-BUTYLPHTHALATE	20. U
39B	206-44-0	FLUORANTHENE	20. U
34B	129-00-0	PYRENE	20. U
67B	85-68-7	BUTYLBENZYLPHTHALATE	20. U
28B	91-94-1	3,3'-DICHLOROBENZIDINE	40. U
72B	56-55-3	BENZO (A) ANTHRACENE	20. U
66B	117-81-7	BIS (2-ETHYLHEXYL) PHTHALATE	20. U
76B	218-01-9	CHRYSENE	20. U
69B	117-84-0	DI-N-OCTYLPHTHALATE	20. U
74B	205-99-2	BENZO (B & K) FLUORANTHENE	20. U
73B	50-32-8	BENZO (A) PYRENE	20. U
33B	193-39-5	INDENO-1,2,3 (C,D) PYRENE	20. U
32B	53-70-3	DIBENZO (A,H) ANTHRACENE	20. U
79B	191-24-2	BENZO (G,H,I) PERYLENE	20. U

ALL RESULTS ARE REPORTED ON A WET WEIGHT BASIS.

AR100212

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB828RE

LABORATORY: IT/CERR
LABORATORY ID: 34886AB2
MATRIX: WATER

CASE #/SAS #: 5110
QC REPORT #: 6962-231
CONTRACT #: 68-01-6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY: Cheryl Wesnor

SEMIVOLATILE COMPOUNDS
SURROGATE SPIKE RECOVERIES

LEVEL:	LOW	GPC	Y_ N✓
DATE EXT/PREP:	12/03/85	SEP. FUNNEL	Y_ N✓
DATE ANALYZED:	01/03/86	CONT. EXT.	Y✓ N_
SPL-->EXTRACT:	1L:2ML		
PH:	NA	Sample Originally Extracted: 11/3/85	
% MOISTURE (NOT DEC.):	NA	Re-Extracted Due To: low Phenols and 2-fluorophenol	
% MOISTURE (DEC.):	NA		
STANDARD ID:	BNA853		
SENSITIVITY ID:	FSS568		
UNITS:	UG/L		

LAB ID	COMPOUND	SAMPLE	SPIKED	% RECOVERY
	NITROBENZENE-D5	3. J	103.	3 *
	2-FLUOROBIPHENYL	6. J	104.	6 *
34886AB2	P-TERPHENYL-D14	20. U	104.	0 *
	PHENOL-D5	20. U	207.	0 *
	2-FLUOROPHENOL	20. U	204.	0 *
	2,4,6-TRIBROMOPHENOL	20. U	206.	0 *

* - ASTERISKED VALUES ARE OUTSIDE QC LIMITS NS - NOT SPIKED
# - _____ RECOVERIES DUE TO DILUTION
$ - _____ RECOVERIES DUE TO MATRIX EFFECTS

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	SCAN #	CONC(J)
1	-	Unsaturated Hydrocarbon	1859	10
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

AR100213

DATA REPORTING QUALIFIERS

ALUE IF THE RESULT IS A VALUE GREATER THAN OR EQUAL TO THE DETECTION LIMIT REPORT THE VALUE.

INDICATES COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM ATTAINABLE DETECTION LIMIT FOR THE SAMPLE.

INDICATES AN ESTIMATED VALUE. THIS FLAG IS USED EITHER WHEN ESTIMATING A CONCENTRATION FOR TENTATIVELY IDENTIFIED COMPOUNDS WHERE A 1:1 RESPONSE IS ASSUMED OR WHEN THE MASS SPECTRAL DATA INDICATES THE PRESENCE OF A COMPOUND THAT MEETS THE IDENTIFICATION CRITERIA BUT THE RESULT IS LESS THAN THE SPECIFIED DETECTION LIMIT BUT GREATER THAN ZERO.

THIS FLAG APPLIES TO PESTICIDE PARAMETERS WHERE THE IDENTIFICATION HAS BEEN CONFIRMED BY GCMS. SINGLE COMPONENT PESTICIDES GREATER THAN OR EQUAL TO 10NG/UL IN THE FINAL EXTRACT SHOULD BE CONFIRMED BY GCMS.

THIS FLAG IS USED WHEN THE ANALYTE IS FOUND IN THE BLANK AS WELL AS IN THE SAMPLE. IT INDICATES POSSIBLE/PROBABLE BLANK COMTAMINATION AND WARNS THE DATA USER TO TAKE APPROPRIATE ACTION.

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB829

LABORATORY: IT/CERR
LABORATORY ID: 34887N14
MATRIX: SOIL

CASE #/SAS #: 5110
QC REPORT #: 6962-239
CONTRACT #: 6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY:

VOLATILE COMPOUNDS

LEVEL:	LOW
DATE EXT/PREP:	11/09/85
DATE ANALYZED:	11/09/85
SPL-->EXTRACT:	0.998G
PH:	6.4
% MOISTURE (NOT DEC.):	29.46
% MOISTURE (DEC.):	Not Analyzed
STANDARD ID:	VOA513
SENSITIVITY ID:	BFD457
UNITS:	UG/KG

PP #	CAS #		CONC
45V	74-87-3	CHLOROMETHANE	50. U
46V	74-83-9	BROMOMETHANE	50. U
88V	75-01-4	VINYL CHLORIDE	50. U
16V	75-00-3	CHLOROETHANE	50. U
44V	75-09-2	METHYLENE CHLORIDE	67. B
13H	67-64-1	ACETONE	19. JB
15H	75-15-0	CARBON DISULFIDE	30. U
29V	75-35-4	1,1-DICHLOROETHENE	30. U
13V	75-34-3	1,1-DICHLOROETHANE	30. U
30V	156-60-5	TRANS-1,2-DICHLOROETHENE	30. U
23V	67-66-3	CHLOROFORM	30. U
10V	107-06-2	1,2-DICHLOROETHANE	30. U
14H	78-93-3	2-BUTANONE	50. U
11V	71-55-6	1,1,1-TRICHLOROETHANE	30. U
6V	56-23-5	CARBON TETRACHLORIDE	30. U
19H	108-05-4	VINYL ACETATE	50. U
48V	75-27-4	BROMODICHLOROMETHANE	30. U
32V	78-87-5	1,2-DICHLOROPROPANE	30. U
33VT	10061-02-6	TRANS-1,3-DICHLOROPROPENE	30. U
87V	79-01-6	TRICHLOROETHENE	30. U
51V	124-48-1	CHLORODIBROMOMETHANE	30. U
14V	79-00-5	1,1,2-TRICHLOROETHANE	30. U
4V	71-43-2	BENZENE	30. U
33VC	10061-01-5	CIS-1,3-DICHLOROPROPENE	30. U
19V	110-75-8	2-CHLOROETHYLVINYL ETHER	50. U
47V	75-25-2	BROMOFORM	30. U
16H	519-78-6	2-HEXANONE	50. U
17H	108-10-1	4-METHYL-2-PENTANONE	50. U
85V	127-18-4	TETRACHLOROETHENE	30. U
15V	79-34-5	1,1,2,2-TETRACHLOROETHANE	30. U
86V	108-88-3	TOLUENE	30. U
7V	108-90-7	CHLOROBENZENE	30. U
38V	100-41-4	ETHYLBENZENE	30. U
18H	100-42-5	STYRENE	30. U
20H	95-47-6	TOTAL XYLENES	30. U

AR100215

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB829

LABORATORY:	IT/CERR	CASE #/SAS #:	5110
LABORATORY ID:	24887D21	QC REPORT #:	6962-239
MATRIX:	SOIL	CONTRACT #:	68-01-6962
		DATE RECEIVED:	10/31/85

DATA RELEASE AUTHORIZED BY:

SEMIVOLATILE COMPOUNDS (PAGE 1)

LEVEL:	LOW	GPC	Y_ N X
DATE EXT/PREP:	11/08/85	SEP. FUNNEL	Y_ N X
DATE ANALYZED:	11/25/85	CONT. EXT.	Y_ N X
SPL-->EXTRACT:	50.28G:5ML		
PH:	6.4		
% MOISTURE (NOT DEC.):	29.46		
% MOISTURE (DEC.):	Not Analyzed		
STANDARD ID:	BNA783		
SENSITIVITY ID:	FSS517		
UNITS:	UG/KG		

CP #	CAS #		CONC
65A	108-95-2	PHENOL	1000. U
8B	111-44-4	BIS (2-CHLOROETHYL) ETHER	1000. U
24A	95-57-8	2-CHLOROPHENOL	1000. U
26B	541-73-1	1,3-DICHLOROBENZENE	1000. U
27	106-46-7	1,4-DICHLOROBENZENE	1000. U
6H	100-51-6	BENZYL ALCOHOL	1000. U
25B	95-50-1	1,2-DICHLOROBENZENE	1000. U
2H	95-48-7	2-METHYLPHENOL	1000. U
42B	39638-32-9	BIS (2-CHLOROISOPROPYL) ETHER	1000. U
3H	106-44-5	4-METHYLPHENOL	1000. U
63B	621-64-7	N-NITROSO-DI-N-PROPLYAMINE	1000. U
2B	67-72-1	HEXACHLOROETHANE	1000. U
6B	98-95-3	NITROBENZENE	1000. U
4B	78-59-1	ISOPHORONE	1000. U
7A	88-75-5	2-NITROPHENOL	1000. U
4A	105-67-9	2,4-DIMETHYLPHENOL	1000. U
1H	65-85-0	BENZOIC ACID	5000. U
43B	111-91-1	BIS (2-CHLOROETHOXY) METHANE	1000. U
31A	120-83-2	2,4-DICHLOROPHENOL	1000. U
8B	120-82-1	1,2,4-TRICHLOROBENZENE	1000. U
5B	91-20-3	NAPHTHALENE	1000. U
7H	106-47-8	4-CHLOROANILINE	1000. U
2B	87-68-3	HEXACHLOROBUTADIENE	1000. U
22A	59-50-7	4-CHLORO-3-METHYLPHENOL	1000. U
9H	91-57-6	2-METHYLNAPHTHALENE	1000. U
3B	77-47-4	HEXACHLOROCYCLOPENTADIENE	1000. U
21A	88-06-2	2,4,6-TRICHLOROPHENOL	1000. U
4H	95-95-4	2,4,5-TRICHLOROPHENOL	5000. U
20B	91-58-7	2-CHLORONAPHTHALENE	1000. U
0	88-74-4	2-NITROANILINE	5000. U
71	131-11-3	DIMETHYLPHTHALATE	1000. U
77B	208-96-8	ACENAPHTHALENE	430. J
1H	99-09-2	3-NITROANILINE	5000. U
1B	83-32-9	ACENAPHTHENE	1000. U
9A	51-28-5	2,4-DINITROPHENOL	5000. U

AR100216

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB829

LABORATORY: IT/CERR
LABORATORY ID: 34897821
MATRIX: SOIL

CASE #/SAS #: 5110
QC REPORT #: 6962-239
CONTRACT #: 68-01-6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY: [signature]

SEMIVOLATILE COMPOUNDS (PAGE 2)

LEVEL:	LOW	GPC	Y_ N X
DATE EXT/PREP:	11/08/85	SEP. FUNNEL	Y_ N X
DATE ANALYZED.	11/25/85	CONT. EXT.	Y_ N X
SPL-->EXTRACT:	50.23G:5ML		
PH:	6.4		
% MOISTURE (NOT DEC.):	29.46		
% MOISTURE (DEC.):	Not Analyzed		
STANDARD ID:	BNA783		
SENSITIVITY ID:	FSS517		
UNITS:	UG/KG		

PP #	CAS #		CONC
58A	100-02-7	4-NITROPHENOL	5000. U
8H	132-64-9	DIBENZOFURAN	1000. U
35B	121-14-2	2,4-DINITROTOLUENE	1000. U
36B	606-20-2	2,6-DINITROTOLUENE	1000. U
70B	84-66-2	DIETHYLPHTHALATE	1000. U
40B	7005-72-3	4-CHLOROPHENYLPHENYL ETHER	1000. U
80B	86-73-7	FLUORENE	1000. U
12H	100-01-6	4-NITROANILINE	5000. U
60A	534-52-1	4,6-DINITRO-O-CRESOL	5000. U
62B	86-30-6	N-NITROSODIPHENYLAMINE	1000. U
41B	101-55-3	4-BROMOPHENOXYBENZENE	1000. U
9B	118-74-1	HEXACHLOROBENZENE	1000. U
64A	87-86-5	PENTACHLOROPHENOL	5000. U
81B	85-01-8	PHENANTHRENE	1000.
78B	120-12-7	ANTHRACENE	290. J
68B	84-74-2	DI-N-BUTYLPHTHALATE	1000. U
39B	206-44-0	FLUORANTHENE	2500.
84B	129-00-0	PYRENE	2100.
67B	85-68-7	BUTYLBENZYLPHTHALATE	1000. U
28B	91-94-1	3,3'-DICHLOROBENZIDINE	2000. U
72B	56-55-3	BENZO (A) ANTHRACENE	1400.
66B	117-81-7	BIS (2-ETHYLHEXYL) PHTHALATE	1000. U
76B	218-01-9	CHRYSENE	1300.
69B	117-84-0	DI-N-OCTYLPHTHALATE	1000. U
74B	205-99-2	BENZO (B & K) FLUORANTHENE	1000. U
73B	50-32-8	BENZO (A) PYRENE	1000. U
83B	193-39-5	INDENO-1,2,3 (C,D) PYRENE	1000. U
82B	53-70-3	DIBENZO (A,H) ANTHRACENE	1000. U
79B	191-24-2	BENZO (G,H,I) PERYLENE	1000. U

ALL RESULTS ARE REPORTED ON A WET WEIGHT BASIS.

AR100217

Sample #: CB 829 (Hg)

Laboratory: IT/Cerritos
Lab ID: 2317-40 (1/10)
Lab ID for Dil:
Sample Matrix: Soil
Data Release Authorized by: JM JS

Case #/SAS #: 5110
QC Report #: 6962-239
Contract #: 68-01-6962
Date Rec'd: 10-31-85

Organics Analysis Data Sheet
Pesticide/PCB's

Sample Level: low
Date Extracted: 11-8-85
Date Analyzed: 11-20-85
Spl->Extract: 50.07g→10ml;5ml→10ml
For Dilution: 1/10
pH: 6.4
% Moisture: 29.46
% Moisture (Decanted): Not Analyzed
Lab Std ID: 2317-4,5,14,15

ALL RESULTS ARE REPORTED ON WET WEIGHT BASIS.

Circle Units: (ug/Kg) ug/L

319-84-6	alpha-BHC	20 u
319-85-7	beta-BHC	
319-86-8	delta-BHC	
58-89-9	gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	40 u
72-55-9	4,4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4,4'-DDD	
1031-07-8	Endosulfan Sulfate	
50-29-3	4,4'-DDT	
72-43-5	Methoxychlor	200 u
53494-70-5	Endrin Ketone	40 u
57-74-9	Chlordane	200 u
8001-35-2	Toxaphene	400 u
12674-11-2	Arochlor-1016	200 u
11104-28-2	Arochlor-1221	
11141-16-5	Arochlor-1232	
53469-21-9	Arochlor-1242	
12672-29-6	Arochlor-1248	2000 *#
11097-69-1	Arochlor-1254	2200 *#
11096-82-5	Arochlor-1260	400 u

U - Analyzed for but not detected (Reported Value is Detection Limit-DL)
J - Estimated Value (0 < Value < DL)
C - Confirmed by GC/MS-GC Quantitation
B - Compound found in Blank. Sample results are not Blank Corrected.
** - Detected below GC/MS DL-GC Quantitation
N - Not Confirmed by GC/MS-GC/MS DL
NA - Not Analyzed
NR - Not Reported

V_i = Volume of extract injected (ul)
V_s = Volume of water extracted (ml)
W_s = Weight of sample extracted (g)
V_t = Volume of total extract (ul)

V_s — ml or
W_s 50.07 g
V_t 200,000 ul
V_i 5 ul

Surrogate Spike Recoveries — Circle Units: (ug/Kg) ug/L

Lab ID	Fraction	Compound	Conc. Sample	Conc. Spiked	% Recovery
2317-40	Pest.	Dibutyl Chlorendate	100 u	40	0 *#

AR 000218

* - Asterisked Values are outside QC Limits.
NS - Not Spiked
\# - 1010 Recoveries due to Dilution.
$ - _____ Recoveries due to Matrix Effects.

Rev 8/85

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB829

LABORATORY: IT/CERR
LABORATORY ID: 34887N14
MATRIX: SOIL

CASE #/SAS #: 5110
QC REPORT #: 6962-239
CONTRACT #: 6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY: John Bryan

VOLATILE COMPOUNDS

SURROGATE SPIKE RECOVERIES

LEVEL:	LOW
DATE EXT/PREP:	11/09/85
DATE ANALYZED:	11/09/85
SPL-->EXTRACT:	0.998G
PH:	6.4
% MOISTURE (NOT DEC.):	29.46
% MOISTURE (DEC.):	Not Analyzed
STANDARD ID:	VOA513
SENSITIVITY ID:	BFD457
UNITS:	UG/KG

LAB ID	COMPOUND	SAMPLE	SPIKED	% RECOVERY
	TOLUENE-D8	249.	250.	100
34887N14	4-BROMOFLUOROBENZENE	247.	250.	99
	1,2-DICHLOROETHANE-D4	254.	250.	102

* - ASTERISKED VALUES ARE OUTSIDE QC LIMITS NS - NOT SPIKED
# - _____ RECOVERIES DUE TO DILUTION
$ - _____ RECOVERIES DUE TO MATRIX EFFECTS

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	SCAN #	CONC(J)
1		NONE FOUND		
2				
3				
4				
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AR100219

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB829

LABORATORY: IT/CERR
LABORATORY ID: 34887B21
MATRIX: SOIL

CASE #/SAS #: 5110
QC REPORT #: 6962-239
CONTRACT #: 68-01-6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY:

SEMIVOLATILE COMPOUNDS
SURROGATE SPIKE RECOVERIES

LEVEL:	LOW	GPC	Y_ N X
DATE EXT/PREP:	11/08/85	SEP. FUNNEL	Y_ N X
DATE ANALYZED:	11/25/85	CONT. EXT.	Y_ N X
SPL-->EXTRACT:	50.28G:5ML		
PH:	6.4		
% MOISTURE (NOT DEC.):	29.46		
% MOISTURE (DEC.):	Not Analyzed		
STANDARD ID:	BNA783		
SENSITIVITY ID:	FSS517		
UNITS:	UG/KG		

LAB ID	COMPOUND	SAMPLE	SPIKED	% RECOVERY
	NITROBENZENE-D5	640. J	1020.	63
	2-FLUOROBIPHENYL	1070.	1030.	104
34887B21	P-TERPHENYL-D14	647. J	1030.	63
	PHENOL-D5	1740.	2050.	85
	2-FLUOROPHENOL	1440.	2030.	71
	2,4,6-TRIBROMOPHENOL	644. J	2050.	31

* - ASTERISKED VALUES ARE OUTSIDE QC LIMITS NS - NOT SPIKED
# - _____ RECOVERIES DUE TO DILUTION
$ - _____ RECOVERIES DUE TO MATRIX EFFECTS

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	SCAN #	CONC(J)
1	20019-64-1	5,5-Dimethyl-2(5H)-Furanone	472	500
2		Hydrocarbon Matrix Characterization	1163	
3		Hydrocarbon for Matrix Characterization	1645	
4		Hydrocarbon for Matrix Characterization	1879	
5		Total Hydrocarbon Matrix	700-2050	400,000
6				
7				
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AR100220

DATA REPORTING QUALIFIERS

VALUE	IF THE RESULT IS A VALUE GREATER THAN OR EQUAL TO THE DETECTION LIMIT REPORT THE VALUE.
U	INDICATES COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM ATTAINABLE DETECTION LIMIT FOR THE SAMPLE.
J	INDICATES AN ESTIMATED VALUE. THIS FLAG IS USED EITHER WHEN ESTIMATING A CONCENTRATION FOR TENTATIVELY IDENTIFIED COMPOUNDS WHERE A 1:1 RESPONSE IS ASSUMED OR WHEN THE MASS SPECTRAL DATA INDICATES THE PRESENCE OF A COMPOUND THAT MEETS THE IDENTIFICATION CRITERIA BUT THE RESULT IS LESS THAN THE SPECIFIED DETECTION LIMIT BUT GREATER THAN ZERO.
C	THIS FLAG APPLIES TO PESTICIDE PARAMETERS WHERE THE IDENTIFICATION HAS BEEN CONFIRMED BY GCMS. SINGLE COMPONENT PESTICIDES GREATER THAN OR EQUAL TO 10NG/UL IN THE FINAL EXTRACT SHOULD BE CONFIRMED BY GCMS.
B	THIS FLAG IS USED WHEN THE ANALYTE IS FOUND IN THE BLANK AS WELL AS IN THE SAMPLE. IT INDICATES POSSIBLE/PROBABLE BLANK COMTAMINATION AND WARNS THE DATA USER TO TAKE APPROPRIATE ACTION.

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB831

[redacted]TORY: IT/CERR
[redacted]ATORY ID: 34887N3
ATRIX: SOIL

CASE #/SAS #: 5110
QC REPORT #: 6962-239
CONTRACT #: 6962
DATE RECEIVED: 10/31/85

ATA RELEASE AUTHORIZED BY:

VOLATILE COMPOUNDS

LEVEL:	LOW
DATE EXT/PREP:	11/08/85
DATE ANALYZED:	11/08/85
SPL-->EXTRACT:	0.995G
PH:	8.3
% MOISTURE (NOT DEC.):	17.31
% MOISTURE (DEC.):	Not Analyzed
STANDARD ID:	VOA512
SENSITIVITY ID:	BFD456
UNITS:	UG/KG

P #	CAS #		CONC	
5V	74-87-3	CHLOROMETHANE	50.	U
6V	74-83-9	BROMOMETHANE	50.	U
8V	75-01-4	VINYL CHLORIDE	50.	U
6[redacted]	75-00-3	CHLOROETHANE	50.	U
4[redacted]	75-09-2	METHYLENE CHLORIDE	58.	B
3H	67-64-1	ACETONE	50.	U
5H	75-15-0	CARBON DISULFIDE	30.	U
9V	75-35-4	1,1-DICHLOROETHENE	30.	U
3V	75-34-3	1,1-DICHLOROETHANE	30.	U
0V	156-60-5	TRANS-1,2-DICHLOROETHENE	30.	U
3V	67-66-3	CHLOROFORM	30.	U
0V	107-06-2	1,2-DICHLOROETHANE	30.	U
4H	78-93-3	2-BUTANONE	50.	U
1V	71-55-6	1,1,1-TRICHLOROETHANE	30.	U
6V	56-23-5	CARBON TETRACHLORIDE	30.	U
9H	108-05-4	VINYL ACETATE	50.	U
8V	75-27-4	BROMODICHLOROMETHANE	30.	U
2V	78-87-5	1,2-DICHLOROPROPANE	30.	U
3VT	10061-02-6	TRANS-1,3-DICHLOROPROPENE	30.	U
7V	79-01-6	TRICHLOROETHENE	30.	U
1V	124-48-1	CHLORODIBROMOMETHANE	30.	U
4V	79-00-5	1,1,2-TRICHLOROETHANE	30.	U
4V	71-43-2	BENZENE	30.	U
3VC	10061-01-5	CIS-1,3-DICHLOROPROPENE	30.	U
9V	110-75-8	2-CHLOROETHYLVINYL ETHER	50.	U
7V	75-25-2	BROMOFORM	30.	U
6H	519-78-6	2-HEXANONE	50.	U
7H	108-10-1	4-METHYL-2-PENTANONE	50.	U
5[redacted]	127-18-4	TETRACHLOROETHENE	30.	U
5[redacted]	79-34-5	1,1,2,2-TETRACHLOROETHANE	30.	U
6V	108-88-3	TOLUENE	30.	
7V	108-90-7	CHLOROBENZENE	30.	U
8V	100-41-4	ETHYLBENZENE	30.	U
8H	100-42-5	STYRENE	30.	U
0H	95-47-6	TOTAL XYLENES	30.	U

AR100222

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB831

LABORATORY: IT/CERR
LABORATORY ID: 3488733
MATRIX: SOIL

CASE #/SAS #: 5110
QC REPORT #: 6962-239
CONTRACT #: 68-01-6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY:

SEMIVOLATILE COMPOUNDS (PAGE 1)

LEVEL:	LOW	GPC	Y_ N X
DATE EXT/PREP:	11/08/85	SEP. FUNNEL	Y_ N X
DATE ANALYZED:	11/22/85	CONT. EXT.	Y_ N X
SPL-->EXTRACT:	50.02G:1ML		
PH:	8.3		
% MOISTURE (NOT DEC.):	17.3		
% MOISTURE (DEC.):	Not Analyzed		
STANDARD ID:	BNA773		
SENSITIVITY ID:	FSS515		
UNITS:	UG/KG		

PP #	CAS #		CONC
65A	108-95-2	PHENOL	200. U
18B	111-44-4	BIS (2-CHLOROETHYL) ETHER	200. U
24A	95-57-8	2-CHLOROPHENOL	200. U
26B	541-73-1	1,3-DICHLOROBENZENE	200. U
27B	106-46-7	1,4-DICHLOROBENZENE	200. U
6H	100-51-6	BENZYL ALCOHOL	200. U
25B	95-50-1	1,2-DICHLOROBENZENE	200. U
2H	95-48-7	2-METHYLPHENOL	200. U
42B	39638-32-9	BIS (2-CHLOROISOPROPYL) ETHER	200. U
3H	106-44-5	4-METHYLPHENOL	200. U
63B	621-64-7	N-NITROSO-DI-N-PROPLYAMINE	200. U
12B	67-72-1	HEXACHLOROETHANE	200. U
56B	98-95-3	NITROBENZENE	200. U
54B	78-59-1	ISOPHORONE	200. U
57A	88-75-5	2-NITROPHENOL	200. U
34A	105-67-9	2,4-DIMETHYLPHENOL	200. U
1H	65-85-0	BENZOIC ACID	1000. U
43B	111-91-1	BIS (2-CHLOROETHOXY) METHANE	200. U
31A	120-83-2	2,4-DICHLOROPHENOL	200. U
8B	120-82-1	1,2,4-TRICHLOROBENZENE	200. U
55B	91-20-3	NAPHTHALENE	200. U
7H	106-47-8	4-CHLOROANILINE	200. U
52B	87-68-3	HEXACHLOROBUTADIENE	200. U
22A	59-50-7	4-CHLORO-3-METHYLPHENOL	200. U
9H	91-57-6	2-METHYLNAPHTHALENE	200. U
53B	77-47-4	HEXACHLOROCYCLOPENTADIENE	200. U
21A	88-06-2	2,4,6-TRICHLOROPHENOL	200. U
4H	95-95-4	2,4,5-TRICHLOROPHENOL	1000. U
20B	91-58-7	2-CHLORONAPHTHALENE	200. U
10H	88-74-4	2-NITROANILINE	1000. U
71B	131-11-3	DIMETHYLPHTHALATE	200. U
77B	208-96-8	ACENAPHTHALENE	200. U
11H	99-09-2	3-NITROANILINE	1000. U
1B	83-32-9	ACENAPHTHENE	200. U
59A	51-28-5	2,4-DINITROPHENOL	1000. U

AR100223

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB831

LABORATORY: IT/CERR
LABORATORY ID: 2488783
MATRIX: SOIL

CASE #/SAS #: 5110
QC REPORT #: 6962-239
CONTRACT #: 68-01-6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY:

SEMIVOLATILE COMPOUNDS (PAGE 2)

LEVEL:	LOW	GPC	Y_ N X
DATE EXT/PREP:	11/08/85	SEP. FUNNEL	Y_ N X
DATE ANALYZED:	11/22/85	CONT. EXT.	Y_ N X
SPL--EXTRACT:	50.02G: 1ML		
PH:	8.3		
% MOISTURE (NOT DEC.):	17.31		
% MOISTURE (DEC.):	Not Analyzed		
STANDARD ID:	BNA773		
SENSITIVITY ID:	FSS515		
UNITS:	UG/KG		

PP #	CAS #		CONC
58A	100-02-7	4-NITROPHENOL	1000. U
8H	132-64-9	DIBENZOFURAN	200. U
35B	121-14-2	2,4-DINITROTOLUENE	200. U
36B	606-20-2	2,6-DINITROTOLUENE	200. U
7B	84-66-2	DIETHYLPHTHALATE	200. U
40B	7005-72-3	4-CHLOROPHENYLPHENYL ETHER	200. U
80B	86-73-7	FLUORENE	200. U
12H	100-01-6	4-NITROANILINE	1000. U
60A	534-52-1	4,6-DINITRO-O-CRESOL	1000. U
62B	86-30-6	N-NITROSODIPHENYLAMINE	200. U
41B	101-55-3	4-BROMOPHENOXYBENZENE	200. U
9B	118-74-1	HEXACHLOROBENZENE	200. U
64A	87-86-5	PENTACHLOROPHENOL	1000. U
81B	85-01-8	PHENANTHRENE	200. U
78B	120-12-7	ANTHRACENE	200. U
62B	84-74-2	DI-N-BUTYLPHTHALATE	200. U
39B	206-44-0	FLUORANTHENE	200. U
84B	129-00-0	PYRENE	200. U
67B	85-68-7	BUTYLBENZYLPHTHALATE	200. U
28B	91-94-1	3,3'-DICHLOROBENZIDINE	400. U
72B	56-55-3	BENZO (A) ANTHRACENE	200. U
66B	117-81-7	BIS (2-ETHYLHEXYL) PHTHALATE	200. U
76B	218-01-9	CHRYSENE	200. U
69B	117-84-0	DI-N-OCTYLPHTHALATE	200. U
74B	205-99-2	BENZO (B & K) FLUORANTHENE	200. U
73B	50-32-8	BENZO (A) PYRENE	200. U
83B	193-39-5	INDENO-1,2,3 (C,D) PYRENE	200. U
82B	53-70-3	DIBENZO (A,H) ANTHRACENE	200. U
79B	191-24-2	BENZO (G,H,I) PERYLENE	200. U

ALL RESULTS ARE REPORTED ON A WET WEIGHT BASIS.

Sample #: CB831 (Hg)

Laboratory: IT/Cerritos
Lab ID: 2317-18
Lab ID for Dil: —
Sample Matrix: Soil
Data Release Authorized by: JM J J[illegible]

Case #/SAS #: 5110
QC Report #: 6962-239
Contract #: 68-01-6962
Date Rec'd: 10-31-85

Organics Analysis Data Sheet
Pesticide/PCB's

Sample Level: low
Date Extracted: 11-8-85
Date Analyzed: 11-20-85
Spl->Extract: 50.01g → 10ml ; 5ml → 10ml
For Dilution: —
pH: 8.3
% Moisture: 17.31
% Moisture (Decanted): Not Analyzed
Lab Std ID: 2317-4.5

ALL RESULTS ARE REPORTED ON WET WEIGHT BASIS.

Column Type: 3% OV-1
Column #: 405
Inst. ID: 613

Circle Units: (ug/Kg) ug/L

319-84-6	alpha-BHC	2 U
319-85-7	beta-BHC	
319-86-8	delta-BHC	
58-89-9	gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	4 U
72-55-9	4,4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4,4'-DDD	
1031-07-8	Endosulfan Sulfate	
50-29-3	4,4'-DDT	
72-43-5	Methoxychlor	20 U
53494-70-5	Endrin Ketone	4 U
57-74-9	Chlordane	20 U
8001-35-2	Toxaphene	40 U
12674-11-2	Arochlor-1016	20 U
11104-28-2	Arochlor-1221	
11141-16-5	Arochlor-1232	
53469-21-9	Arochlor-1242	
12672-29-6	Arochlor-1248	83 **
11097-69-1	Arochlor-1254	40 U
11096-82-5	Arochlor-1260	140 **

U - Analyzed for but not detected (Reported Value is Detection Limit-DL)
J - Estimated Value (0 < Value < DL)
C - Confirmed by GC/MS-GC Quantitation
B - Compound found in Blank. Sample results are not Blank Corrected.
** - Detected below GC/MS DL-GC Quantitation
N - Not Confirmed by GC/MS-GC/MS DL
NA - Not Analyzed
NR - Not Reported

V_i = Volume of extract injected (ul)
V_s = Volume of water extracted (ml)
W_s = Weight of sample extracted (g)
V_t = Volume of total extract (ul)

V_s — ml or
W_s 50.01 g
V_t 20,000 ul
V_i 5 ul

Surrogate Spike Recoveries — Circle Units: (ug/Kg) ug/L

Lab ID	Fraction	Compound	Conc. Sample	Conc. Spiked	% Recovery
2317-18	Pest.	Dibutyl Chlorendate	27	40	68

* - Asterisked Values are outside QC Limits. NS - Not Spiked
\# - _____ Recoveries due to Dilution.
$ - _____ Recoveries due to Matrix Effects.

Rev 8/85

ORGANICS ANALYSIS DATA SHEET

SAMPLE #: CB831

ABORATORY: IT/CERR
A[redacted]TORY ID: 34887N3
[redacted]: SOIL

CASE #/SAS #: 5110
QC REPORT #: 6962-239
CONTRACT #: 6962
DATE RECEIVED: 10/31/85

ATA RELEASE AUTHORIZED BY:

VOLATILE COMPOUNDS

SURROGATE SPIKE RECOVERIES

LEVEL:	LOW
DATE EXT/PREP:	11/08/85
DATE ANALYZED:	11/08/85
SPL-->EXTRACT:	0.995G
PH:	8.3
% MOISTURE (NOT DEC.):	17.31
% MOISTURE (DEC.):	Not Analyzed
STANDARD ID:	VOA512
SENSITIVITY ID:	BFD456
UNITS:	UG/KG

LAB ID	COMPOUND	SAMPLE	SPIKED	% RECOVERY
	TOLUENE-D8	253.	250.	101
34887N3	4-BROMOFLUOROBENZENE	253.	250.	101
[redacted]	1,2-DICHLOROETHANE-D4	256.	250.	102

- ASTERISKED VALUES ARE OUTSIDE QC LIMITS NS - NOT SPIKED
- _____ RECOVERIES DUE TO DILUTION
- _____ RECOVERIES DUE TO MATRIX EFFECTS

TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	COMPOUND NAME	SCAN #	CONC(J)
	NONE FOUND		

[redacted]

AR100226

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB831

LABORATORY: IT/CERR
LABORATORY ID: 3488783
MATRIX: SOIL

CASE #/SAS #: 5110
QC REPORT #: 6962-239
CONTRACT #: 68-01-6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY:

SEMIVOLATILE COMPOUNDS
SURROGATE SPIKE RECOVERIES

LEVEL:	LOW	GPC	Y_ N X
DATE EXT/PREP:	11/08/85	SEP. FUNNEL	Y_ N X
DATE ANALYZED:	11/22/85	CONT. EXT.	Y_ N X
SPL--EXTRACT:	50.02G:1ML		
PH:	8.3		
% MOISTURE (NOT DEC.):	17.31		
% MOISTURE (DEC.):	Not Analyzed		
STANDARD ID:	BNA773		
SENSITIVITY ID:	FSS515		
UNITS:	UG/KG		

LAB ID	COMPOUND	SAMPLE	SPIKED	% RECOVERY
	NITROBENZENE-D5	619.	1020.	61
	2-FLUOROBIPHENYL	659.	1030.	64
3488783	P-TERPHENYL-D14	532.	1030.	52
	PHENOL-D5	1290.	2060.	63
	2-FLUOROPHENOL	1000.	2030.	49
	2,4,6-TRIBROMOPHENOL	1040.	2050.	51

* - ASTERISKED VALUES ARE OUTSIDE QC LIMITS NS - NOT SPIKED
# - _____ RECOVERIES DUE TO DILUTION
$ - _____ RECOVERIES DUE TO MATRIX EFFECTS

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	SCAN #	CONC(J)
1		NONE FOUND		
2				
3				
4				
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AR100227

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB841

[redacted]ATORY: IT/CERR
[redacted]ATORY ID: 34887N12
[redacted]TRIX: SOIL

CASE #/SAS #: 5110
QC REPORT #: 6962-239
CONTRACT #: 6962
DATE RECEIVED: 10/31/85

ATA RELEASE AUTHORIZED BY:

VOLATILE COMPOUNDS

SURROGATE SPIKE RECOVERIES

LEVEL.	LOW
DATE EXT/PREP:	11/09/85
DATE ANALYZED:	11/09/85
SPL-->EXTRACT:	1.020G
PH:	7.0
% MOISTURE (NOT DEC.):	100.0
% MOISTURE (DEC.):	Not Analyzed
STANDARD ID:	VOA513
SENSITIVITY ID:	BFD457
UNITS:	UG/KG

LAB ID	COMPOUND	SAMPLE	SPIKED	% RECOVERY
	TOLUENE-D8	249.	250.	100
4[redacted]N12	4-BROMOFLUOROBENZENE	251.	250.	100
	1,2-DICHLOROETHANE-D4	254.	250.	102

- ASTERISKED VALUES ARE OUTSIDE QC LIMITS NS - NOT SPIKED
- _____ RECOVERIES DUE TO DILUTION
- _____ RECOVERIES DUE TO MATRIX EFFECTS

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	SCAN #	CONC(J)
1		NONE FOUND		
2				
3				
4				
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AR100228

DATA REPORTING QUALIFIERS

VALUE	IF THE RESULT IS A VALUE GREATER THAN OR EQUAL TO THE DETECTION LIMIT REPORT THE VALUE.
U	INDICATES COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM ATTAINABLE DETECTION LIMIT FOR THE SAMPLE.
J	INDICATES AN ESTIMATED VALUE. THIS FLAG IS USED EITHER WHEN ESTIMATING A CONCENTRATION FOR TENTATIVELY IDENTIFIED COMPOUNDS WHERE A 1:1 RESPONSE IS ASSUMED OR WHEN THE MASS SPECTRAL DATA INDICATES THE PRESENCE OF A COMPOUND THAT MEETS THE IDENTIFICATION CRITERIA BUT THE RESULT IS LESS THAN THE SPECIFIED DETECTION LIMIT BUT GREATER THAN ZERO.
C	THIS FLAG APPLIES TO PESTICIDE PARAMETERS WHERE THE IDENTIFICATION HAS BEEN CONFIRMED BY GCMS. SINGLE COMPONENT PESTICIDES GREATER THAN OR EQUAL TO 10NG/UL IN THE FINAL EXTRACT SHOULD BE CONFIRMED BY GCMS.
B	THIS FLAG IS USED WHEN THE ANALYTE IS FOUND IN THE BLANK AS WELL AS IN THE SAMPLE. IT INDICATES POSSIBLE/PROBABLE BLANK COMTAMINATION AND WARNS THE DATA USER TO TAKE APPROPRIATE ACTION.

Sample #: CB 837 (Hg)

Laboratory: IT/Cerritos
Lab ID: 2317-37
Lab ID for Dil: —
Sample Matrix: Soil
Data Release Authorized by: JJ

Case #/SAS #: 5110
QC Report #: 6962-240
Contract #: 68-01-6962
Date Rec'd: 10-31-85

Organics Analysis Data Sheet
Pesticide/PCB's

Sample Level: Medium
Date Extracted: 11-8-85
Date Analyzed: 11-20-85
Spl->Extract: 2.01g->10ml . 5ml->10ml
For Dilution: —
pH: 6.7
% Moisture: 11.41
% Moisture (Decanted): Not Analyzed
Lab Std ID: 2317-4,5

ALL RESULTS ARE REPORTED ON WET WEIGHT BASIS.

Circle Units: (ug/Kg) ug/L

319-84-6	alpha-BHC	50 U
319-85-7	beta-BHC	
319-86-8	delta-BHC	
58-89-9	gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	100 U
72-55-9	4,4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4,4'-DDD	
1031-07-8	Endosulfan Sulfate	
50-29-3	4,4'-DDT	
72-43-5	Methoxychlor	500 U
53494-70-5	Endrin Ketone	100 U
57-74-9	Chlordane	500 U
8001-35-2	Toxaphene	1000 U
12674-11-2	Arochlor-1016	500 U
11104-28-2	Arochlor-1221	
11141-16-5	Arochlor-1232	
53469-21-9	Arochlor-1242	
12672-29-6	Arochlor-1248	8900 **
11097-69-1	Arochlor-1254	1000 U
11096-82-5	Arochlor-1260	2700 **

U - Analyzed for but not detected (Reported Value is Detection Limit-DL)
J - Estimated Value (0 < Value < DL)
C - Confirmed by GC/MS-GC Quantitation
B - Compound found in Blank. Sample results are not Blank Corrected.
** - Detected below GC/MS DL-GC Quantitation
N - Not Confirmed by GC/MS-GC/MS DL
NA - Not Analyzed
NR - Not Reported

V_i = Volume of extract injected (ul)
V_s = Volume of water extracted (ml)
W_s = Weight of sample extracted (g)
V_t = Volume of total extract (ul)

V_s — ml or
W_s 2.01 g
V_t 20,000 ul
V_i 5 ul

Surrogate Spike Recoveries — Circle Units: (ug/Kg) ug/L

Lab ID	Fraction	Compound	Conc. Sample	Conc. Spiked	% Recovery
2317-37	Pest.	Dibutyl Chlorendate	270	1000	100 270

* - Asterisked Values are outside QC Limits.
\# - _____ Recoveries due to Dilution.
s - _____ Recoveries due to Matrix Effects.
NS - Not Spiked

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ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB837

LABORATORY: IT/CERR
LABORATORY ID: 34887N15
MATRIX: SOIL

CASE #/SAS #: 5110
QC REPORT #: 6962-239
CONTRACT #: 6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY: [signature]

VOLATILE COMPOUNDS

SURROGATE SPIKE RECOVERIES

LEVEL:	LOW
DATE EXT/PREP:	11/09/85
DATE ANALYZED:	11/09/85
SPL-->EXTRACT:	1.019G
PH:	6.7
% MOISTURE (NOT DEC.):	11.41
% MOISTURE (DEC.):	Not Analyzed
STANDARD ID:	VOA513
SENSITIVITY ID:	BFD457
UNITS:	UG/KG

LAB ID	COMPOUND	SAMPLE	SPIKED	% RECOVERY
	TOLUENE-D8	267.	250.	107
34887N15	4-BROMOFLUOROBENZENE	221.	250.	88
	1,2-DICHLOROETHANE-D4	253.	250.	101

* - ASTERISKED VALUES ARE OUTSIDE QC LIMITS NS - NOT SPIKED
# - _____ RECOVERIES DUE TO DILUTION
$ - _____ RECOVERIES DUE TO MATRIX EFFECTS

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	SCAN #	CONC(J)
1		NONE FOUND		
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				AR100231
17				
18				
19				
20				
21				
22				

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB837

LABORATORY: IT/CERR
LABORATORY ID: 34887B8
MATRIX: SOIL

CASE #/SAS #: 5110
QC REPORT #: ~~6962-240~~
CONTRACT #: 68-01-6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY:

SEMIVOLATILE COMPOUNDS
SURROGATE SPIKE RECOVERIES

LEVEL:	MEDIUM	GPC	Y_ N X
DATE EXT/PREP:	11/08/85	SEP. FUNNEL	Y_ N X
DATE ANALYZED:	11/22/85	CONT. EXT.	Y_ N X
SPL--EXTRACT:	1.00G: 1ML--200UL: 1ML		
PH:	6.7		
% MOISTURE (NOT DEC.):	11.41		
% MOISTURE (DEC.):	Not Analyzed		
STANDARD ID:	BNA773		
SENSITIVITY ID:	FSS515		
UNITS:	UG/KG		

LAB ID	COMPOUND	SAMPLE	SPIKED	% RECOVERY
	NITROBENZENE-D5	31100. J	51000.	61
	2-FLUOROBIPHENYL	48600. J	51600.	94
34887B8	P-TERPHENYL-D14	34500. J	51400.	67
	PHENOL-D5	76800.	103000.	75
	2-FLUOROPHENOL	54000.	101000.	53
	2,4,6-TRIBROMOPHENOL	50000. U	102000.	0 *

* - ASTERISKED VALUES ARE OUTSIDE QC LIMITS NS - NOT SPIKED
E - _____ RECOVERIES DUE TO DILUTION
D - _____ RECOVERIES DUE TO MATRIX EFFECTS

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	SCAN #	CONC(J)
1	—	HYDROCARBON FOR MATRIX CHARACTERIZATION	1178	—
2	—	HYDROCARBON FOR MATRIX CHARACTERIZATION	1569	—
3	—	HYDROCARBON FOR MATRIX CHARACTERIZATION	1731	—
4	—	TOTAL HYDROCARBON MATRIX	800-2100	3,000,000
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

AR100232

DATA REPORTING QUALIFIERS

VALUE	IF THE RESULT IS A VALUE GREATER THAN OR EQUAL TO THE DETECTION LIMIT REPORT THE VALUE.
U	INDICATES COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM ATTAINABLE DETECTION LIMIT FOR THE SAMPLE.
J	INDICATES AN ESTIMATED VALUE. THIS FLAG IS USED EITHER WHEN ESTIMATING A CONCENTRATION FOR TENTATIVELY IDENTIFIED COMPOUNDS WHERE A 1:1 RESPONSE IS ASSUMED OR WHEN THE MASS SPECTRAL DATA INDICATES THE PRESENCE OF A COMPOUND THAT MEETS THE IDENTIFICATION CRITERIA BUT THE RESULT IS LESS THAN THE SPECIFIED DETECTION LIMIT BUT GREATER THAN ZERO.
C	THIS FLAG APPLIES TO PESTICIDE PARAMETERS WHERE THE IDENTIFICATION HAS BEEN CONFIRMED BY GCMS. SINGLE COMPONENT PESTICIDES GREATER THAN OR EQUAL TO 10NG/UL IN THE FINAL EXTRACT SHOULD BE CONFIRMED BY GCMS.
B	THIS FLAG IS USED WHEN THE ANALYTE IS FOUND IN THE BLANK AS WELL AS IN THE SAMPLE. IT INDICATES POSSIBLE/PROBABLE BLANK COMTAMINATION AND WARNS THE DATA USER TO TAKE APPROPRIATE ACTION.

QUALITY CONTROL REPORT
MATRIX SPIKE (MS AND MSD)
% RECOVERY AND RPD SUMMARY
LABORATORY: IT/WCTS

CASE #/SAS #: 5110 SAMPLE #: CB837
LEVEL: MEDIUM CONTRACT #: 68-01-6962
MATRIX: SOIL UNITS: UG/KG
Q.C. REPORT #: 6962-240

BASE/NEUTRAL AND ACID COMPOUNDS

COMPOUND	CONC SPKD (UG/KG)	CONC SAMPLE	CONC MS	% REC MS	CONC MSD	% REC MSD	RPD
TRICHLOROBENZENE	103000.	50000. U	73000.	71	79000.	77	-8
ACENAPHTHENE	100000.	50000. U	95000.	95	95000.	95	0
2,4-DINITROTOLUENE	101000.	50000. U	64000.	63	57000.	57	12
~~DI-N-BUTYLPHTHALATE~~	~~103000.~~	~~50000. U~~	~~95000.~~	~~92~~	~~94000.~~	~~91~~	~~1~~
PYRENE	101000.	50000. U	74000.	73	79000.	78	-6
NITROSOPROPYLAMINE	102000.	50000. U	76000.	75	82000.	80	-7
1,4-DICHLOROBENZENE	101000.	50000. U	70000.	69	76000.	75	-8
PENTACHLOROPHENOL	206000.	250000. U	170000. J	83	160000. J	78	6
PHENOL	202000.	50000. U	140000.	69	150000.	74	-7
2-CHLOROPHENOL	212000.	50000. U	170000.	80	180000.	85	-6
P-CHLORO-M-CRESOL	204000.	50000. U	110000.	54	140000.	69	-24
4-NITROPHENOL	215000.	250000. U	50000. J	23	46000. J	21	9
NITROBENZENE-D5	51000.	31100. J	40200. J	79	40100. J	79	0
2-FLUOROBIPHENYL	51600.	48600. J	53400.	104	51800.	100	3
P-TERPHENYL-D14	51400.	34500. J	35200. J	69	35900. J	70	-2
PHENOL-D5	103000.	76800.	98800.	96	101000.	98	-2
2-FLUOROPHENOL	101000.	54000.	70400.	70	71800.	71	-2
TRIBROMOPHENOL	102000.	50000. U	5630. J	6*	12300. J	12*	-72

* - ASTERISKED VALUES ARE OUTSIDE QC LIMITS

RPD=(MS-MSD)/((MS+MSD)/2)*100

RECOVERY: B/N'S 0 OUT OF 18 OUTSIDE QC LIMITS
ACIDS 2 OUT OF 16 OUTSIDE QC LIMITS

RPD: B/N'S 0 OUT OF 9 OUTSIDE QC LIMITS
ACIDS 0 OUT OF 8 OUTSIDE QC LIMITS

Summary of Unspiked HSL's

Compound	Conc. Sample	Conc. MS	Conc. MSD	RPD
NONE FOUND	50000 u	50000 u	50000 u	0

AR100234

Case [redacted] AS #: 5110
Level: Medium
Matrix: Soil
QC Report #: 6962-240

Laboratory: IT/Cerritos
Quality Control Report
Matrix Spike(MS and MSD)
% Recovery and RPD Summary

Contract #: 68-01-[redacted]62
Sample #: CB 837
Units: ug/Kg

Fraction	Compound	ug/Kg Spiked	Conc. Sample	Conc. MS	% Rec. MS	Conc. MSD	% Rec. MSD	RPD	OC Limits * RPD	OC Limits * Recovery
Pest. SMO Sample # CB837	Lindane (gamma-BHC)	1000	0 (50u)	940	94	830	83	12	<50	46-127
	Heptachlor	1025	↓	880	86	850	83	4	< 31	35-130
	Aldrin	1020	↓	870	85	810	79	7	< 43	34-132
	Dieldrin	2545	0 (100u)	2000	79	1900	75	5	< 38	31-134
	Endrin	2615	↓	3100	119	2800	107	10	< 45	42-139
	4,4'-DDT	2520	↓	2800	111	2500	99	11	< 50	23-134
	Dibutyl chlorendate **	1000	265	1200 u	Ø#	1200 u	Ø#	Ø	—	20-150

AR100235

* Asterisked Values are outside QC Limits.
** Advisory Limits.
# 1000 Recoveries due to Dilution.
$ _____ Recoveries due to Matrix Effects.

$$RPD = \frac{|MS - MSD|}{\left(\frac{MS + MSD}{2}\right)} \times 100$$

NA - Not Analyzed
NR - (Spiked but) Not Reported
NS - Not Spiked

RPD: Pests 0 out of 1 outside QC Limits

Recovery: Pests 2 out of 14 outside QC Limits

Comments: _____

Summary of Unspiked HSL's

Fraction	Compound	Conc. Sample	Conc. MS	Conc. MSD	RPD
Pest.	PCB 1248	8900	35000	34,000	29
	PCB 1260	2700	8800	10700	27

Note: This section lists compounds on the HSL which were found in the Sample, MS, and/or MSD. It does not include Tentatively Identified compounds which may have been found in the Sample.

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5110-11-25

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB838

[redacted]TORY: IT/CERR
ABORATORY ID: 34887N16
ATRIX: SOIL

CASE #/SAS #: 5110
QC REPORT #: 6962-239
CONTRACT #: 6962
DATE RECEIVED: 10/31/85

ATA RELEASE AUTHORIZED BY:

VOLATILE COMPOUNDS

LEVEL:	LOW
DATE EXT/PREP:	11/09/85
DATE ANALYZED:	11/09/85
SPL-->EXTRACT:	1.008G
PH:	4.6
% MOISTURE (NOT DEC.):	21.95
% MOISTURE (DEC.):	Not Analyzed
STANDARD ID:	VOA513
SENSITIVITY ID:	BFD457
UNITS:	UG/KG

#	CAS #		CONC
5V	74-87-3	CHLOROMETHANE	50. U
6V	74-83-9	BROMOMETHANE	50. U
3[redacted]	75-01-4	VINYL CHLORIDE	50. U
6[redacted]	75-00-3	CHLOROETHANE	50. U
4V	75-09-2	METHYLENE CHLORIDE	66. B
3H	67-64-1	ACETONE	19. JB
5H	75-15-0	CARBON DISULFIDE	30. U
9V	75-35-4	1,1-DICHLOROETHENE	30. U
3V	75-34-3	1,1-DICHLOROETHANE	30. U
0V	156-60-5	TRANS-1,2-DICHLOROETHENE	30. U
3V	67-66-3	CHLOROFORM	30. U
0V	107-06-2	1,2-DICHLOROETHANE	30. U
4H	78-93-3	2-BUTANONE	50. U
1V	71-55-6	1,1,1-TRICHLOROETHANE	30. U
6V	56-23-5	CARBON TETRACHLORIDE	30. U
9H	108-05-4	VINYL ACETATE	50. U
8V	75-27-4	BROMODICHLOROMETHANE	30. U
2V	78-87-5	1,2-DICHLOROPROPANE	30. U
3VT	10061-02-6	TRANS-1,3-DICHLOROPROPENE	30. U
7V	79-01-6	TRICHLOROETHENE	30. U
1V	124-48-1	CHLORODIBROMOMETHANE	30. U
4V	79-00-5	1,1,2-TRICHLOROETHANE	30. U
4V	71-43-2	BENZENE	30. U
3VC	10061-01-5	CIS-1,3-DICHLOROPROPENE	30. U
9V	110-75-8	2-CHLOROETHYLVINYL ETHER	50. U
7V	75-25-2	BROMOFORM	30. U
6H	519-78-6	2-HEXANONE	50. U
7[redacted]	108-10-1	4-METHYL-2-PENTANONE	50. U
[redacted]	127-18-4	TETRACHLOROETHENE	30. U
5V	79-34-5	1,1,2,2-TETRACHLOROETHANE	30. U
6V	108-88-3	TOLUENE	68.
7V	108-90-7	CHLOROBENZENE	30. U
8V	100-41-4	ETHYLBENZENE	30. U
8H	100-42-5	STYRENE	30. U
0H	95-47-6	TOTAL XYLENES	30. U

AR100236

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB838

LABORATORY: IT/CERR
LABORATORY ID: 34887B29
MATRIX: SOIL

CASE #/SAS #: 5110
QC REPORT #: 6962-239
CONTRACT #: 68-01-6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY:

SEMIVOLATILE COMPOUNDS (PAGE 1)

LEVEL:	LOW	GPC	Y_ N X
DATE EXT/PREP:	11/08/85	SEP. FUNNEL	Y_ N X
DATE ANALYZED:	11/26/85	CONT. EXT.	Y_ N X
SPL-->EXTRACT:	50.19G:10ML		
PH:	4.6		
% MOISTURE (NOT DEC.):	21.95		
% MOISTURE (DEC.):	Not Analyzed		
STANDARD ID:	BNA784		
SENSITIVITY ID:	FSS518		
UNITS:	UG/KG		

PP #	CAS #		CONC
65A	108-95-2	PHENOL	2000. U
18B	111-44-4	BIS (2-CHLOROETHYL) ETHER	2000. U
24A	95-57-8	2-CHLOROPHENOL	2000. U
26B	541-73-1	1,3-DICHLOROBENZENE	2000. U
27B	106-46-7	1,4-DICHLOROBENZENE	2000. U
6H	100-51-6	BENZYL ALCOHOL	2000. U
25B	95-50-1	1,2-DICHLOROBENZENE	570. J
2H	95-48-7	2-METHYLPHENOL	2000. U
42B	39638-32-9	BIS (2-CHLOROISOPROPYL) ETHER	2000. U
3H	106-44-5	4-METHYLPHENOL	2000. U
63B	621-64-7	N-NITROSO-DI-N-PROPLYAMINE	2000. U
12B	67-72-1	HEXACHLOROETHANE	2000. U
56B	98-95-3	NITROBENZENE	2000. U
54B	78-59-1	ISOPHORONE	2000. U
57A	88-75-5	2-NITROPHENOL	2000. U
34A	105-67-9	2,4-DIMETHYLPHENOL	2000. U
1H	65-85-0	BENZOIC ACID	10000. U
43B	111-91-1	BIS (2-CHLOROETHOXY) METHANE	2000. U
31A	120-33-2	2,4-DICHLOROPHENOL	2000. U
8B	120-82-1	1,2,4-TRICHLOROBENZENE	2000. U
55B	91-20-3	NAPHTHALENE	2000. U
7H	106-47-8	4-CHLOROANILINE	2000. U
52B	87-68-3	HEXACHLOROBUTADIENE	2000. U
22A	59-50-7	4-CHLORO-3-METHYLPHENOL	2000. U
9H	91-57-6	2-METHYLNAPHTHALENE	2000. U
53B	77-47-4	HEXACHLOROCYCLOPENTADIENE	2000. U
21A	88-06-2	2,4,6-TRICHLOROPHENOL	2000. U
4H	95-95-4	2,4,5-TRICHLOROPHENOL	10000. U
20B	91-58-7	2-CHLORONAPHTHALENE	2000. U
10H	88-74-4	2-NITROANILINE	10000. U
71B	131-11-3	DIMETHYLPHTHALATE	2000. U
77B	208-96-8	ACENAPHTHALENE	2000. U
11H	99-09-2	3-NITROANILINE	10000. U
1B	83-32-9	ACENAPHTHENE	2000. U
59A	51-28-5	2,4-DINITROPHENOL	10000. U

NR100237

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB830

[redacted]RATORY: IT/CERR
[redacted]RATORY ID: 34887314
MATRIX: SOIL

CASE #/SAS #: 5110
QC REPORT #: 6962-239
CONTRACT #: 68-01-6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY:

SEMIVOLATILE COMPOUNDS
SURROGATE SPIKE RECOVERIES

LEVEL:	LOW	GPC	Y_ N X
DATE EXT/PREP:	11/08/85	SEP. FUNNEL	Y_ N X
DATE ANALYZED:	11/24/85	CONT. EXT.	Y_ N X
SPL--)EXTRACT:	50.01G: 1ML: : 250UL: 1ML		
PH:	7.6		
% MOISTURE (NOT DEC.):	21.39		
% MOISTURE (DEC.):	Not Analyzed		
STANDARD ID:	BNA782		
SENSITIVITY ID:	FSS516		
UNITS:	UG/KG		

LAB ID	COMPOUND	SAMPLE	SPIKED	% RECOVERY
	NITROBENZENE-D5	1010.	1020.	99
	2-FLUOROBIPHENYL	1160.	1030.	113
34887B14	P-TERPHENYL-D14	899.	1030.	87
[redacted]	PHENOL-D5	1810.	2050.	88
	2-FLUOROPHENOL	1130.	2030.	56
	2,4,6-TRIBROMOPHENOL	1750.	2050.	85

* - ASTERISKED VALUES ARE OUTSIDE QC LIMITS NS - NOT SPIKED
# - _____ RECOVERIES DUE TO DILUTION
$ - _____ RECOVERIES DUE TO MATRIX EFFECTS

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	SCAN #	CONC(J)
1	2079-64-1	5,5-Dimethyl-2(5H)Furanone	461	400
2	-	Hydrocarbon for matrix characterization	1154	-
3	-	Hydrocarbon for matrix characterization	1532	-
4	-	Hydrocarbon for matrix characterization	1925	-
5	-	Unknown	2003	1,000
6	-	Total hydrocarbon matrix	1100-2100	30,000
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				

AR100238

DATA REPORTING QUALIFIERS

VALUE	IF THE RESULT IS A VALUE GREATER THAN OR EQUAL TO THE DETECTION LIMIT REPORT THE VALUE.
U	INDICATES COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM ATTAINABLE DETECTION LIMIT FOR THE SAMPLE.
J	INDICATES AN ESTIMATED VALUE. THIS FLAG IS USED EITHER WHEN ESTIMATING A CONCENTRATION FOR TENTATIVELY IDENTIFIED COMPOUNDS WHERE A 1:1 RESPONSE IS ASSUMED OR WHEN THE MASS SPECTRAL DATA INDICATES THE PRESENCE OF A COMPOUND THAT MEETS THE IDENTIFICATION CRITERIA BUT THE RESULT IS LESS THAN THE SPECIFIED DETECTION LIMIT BUT GREATER THAN ZERO.
C	THIS FLAG APPLIES TO PESTICIDE PARAMETERS WHERE THE IDENTIFICATION HAS BEEN CONFIRMED BY GCMS. SINGLE COMPONENT PESTICIDES GREATER THAN OR EQUAL TO 10NG/UL IN THE FINAL EXTRACT SHOULD BE CONFIRMED BY GCMS.
B	THIS FLAG IS USED WHEN THE ANALYTE IS FOUND IN THE BLANK AS WELL AS IN THE SAMPLE. IT INDICATES POSSIBLE/PROBABLE BLANK COMTAMINATION AND WARNS THE DATA USER TO TAKE APPROPRIATE ACTION.

QUALITY CONTROL REPORT
MATRIX SPIKE (MS AND MSD)
% RECOVERY AND RPD SUMMARY
LABORATORY: IT/CERR

CASE #/SAS #: 5110 SAMPLE #: CB830
LEVEL: LOW CONTRACT #: 6962
MATRIX: SOIL UNITS: UG/KG
Q.C. REPORT #: 6362-239

VOLATILE COMPOUNDS

COMPOUND	CONC SPKD (UG/KG)	CONC SAMPLE	CONC MS	% REC MS	CONC MSD	% REC MSD	RPD
CHLOROETHYLENE	250.	30. U	250.	100	240.	96	4
ICHLOROETHYLENE	250.	30. U	240.	96	220.	88	9
LOROBENZENE	250.	30. U	240.	96	230.	92	4
LUENE	250.	30. U	270.	108	260.	104	4
NZENE	250.	30. U	260.	104	250.	100	4
LUENE-D8	250.	253.	258.	103	256.	102	1
OMOFLUOROBENZENE	250.	251.	254.	101	254.	101	0
CHLOROETHANE-D4	250.	259.	260.	104	258.	103	1

- ASTERISKED VALUES ARE OUTSIDE QC LIMITS

P[illegible]MS-MSD)/((MS+MSD)/2)*100

RECOVERY: VOA'S 0 OUT OF 16 OUTSIDE QC LIMITS

RPD: VOA'S 0 OUT OF 8 OUTSIDE QC LIMITS

Summary of Unspiked HSL's

Compound	Conc. Sample	Conc. MS	Conc. MSD	RPD
Methylene Chloride	52 B	100 B	79 B	23
Acetone	50 U	29 JB	160 JB	131
Tetrachloroethene	30 U	5 J	6 J	18

AR160626

AR100240

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB827

LABORATORY: IT/CERR
LABORATORY ID: 34886N5
MATRIX: WATER

CASE #/SAS #: 5110
QC REPORT #: 6962-231
CONTRACT #: 6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY: Cheryl Wilson

VOLATILE COMPOUNDS

LEVEL:	LOW
DATE EXT/PREP:	11/07/85
DATE ANALYZED:	11/07/85
SPL-->EXTRACT:	5ML
PH:	Not Analyzed
% MOISTURE (NOT DEC.):	Not Analyzed
% MOISTURE (DEC.):	Not Analyzed
STANDARD ID:	VOA510
SENSITIVITY ID:	BFD45
UNITS:	UG/L

PP #	CAS #		CONC	
45V	74-87-3	CHLOROMETHANE	10. U	
46V	74-83-9	BROMOMETHANE	10. U	
88V	75-01-4	VINYL CHLORIDE	10. U	
16V	75-00-3	CHLOROETHANE	10. U	
44V	75-09-2	METHYLENE CHLORIDE	26.	B
13H	67-64-1	ACETONE	10. U	
15H	75-15-0	CARBON DISULFIDE	5. U	
29V	75-35-4	1,1-DICHLOROETHENE	5. U	
13V	75-34-3	1,1-DICHLOROETHANE	5. U	
30V	156-60-5	TRANS-1,2-DICHLOROETHENE	5. U	
23V	67-66-3	CHLOROFORM	5. U	
10V	107-06-2	1,2-DICHLOROETHANE	5. U	
14H	78-93-3	2-BUTANONE	10. U	
11V	71-55-6	1,1,1-TRICHLOROETHANE	5. U	
6V	56-23-5	CARBON TETRACHLORIDE	5. U	
19H	108-05-4	VINYL ACETATE	10. U	
48V	75-27-4	BROMODICHLOROMETHANE	5. U	
32V	78-87-5	1,2-DICHLOROPROPANE	5. U	
33VT	10061-02-6	TRANS-1,3-DICHLOROPROPENE	5. U	
87V	79-01-6	TRICHLOROETHENE	5. U	
51V	124-48-1	CHLORODIBROMOMETHANE	5. U	
14V	79-00-5	1,1,2-TRICHLOROETHANE	5. U	
4V	71-43-2	BENZENE	5. U	
33VC	10061-01-5	CIS-1,3-DICHLOROPROPENE	5. U	
19V	110-75-8	2-CHLOROETHYLVINYL ETHER	10. U	
47V	75-25-2	BROMOFORM	5. U	
16H	519-78-6	2-HEXANONE	10. U	
17H	108-10-1	4-METHYL-2-PENTANONE	10. U	
35V	127-18-4	TETRACHLOROETHENE	5. U	
15V	79-34-5	1,1,2,2-TETRACHLOROETHANE	5. U	
36V	108-88-3	TOLUENE	5. U	
7V	108-90-7	CHLOROBENZENE	5. U	
38V	100-41-4	ETHYLBENZENE	5. U	
18H	100-42-5	STYRENE	5. U	
20H	95-47-6	TOTAL XYLENES	5. U	

AR100241

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB827

LABORATORY: IT/CERR
LABORATORY ID: 3488682
MATRIX: WATER

CASE #/SAS #: 5110
QC REPORT #: 6962-231
CONTRACT #: 68-01-6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY: Cheryl Wilson

SEMIVOLATILE COMPOUNDS (PAGE 1)

LEVEL:	LOW	GPC	Y_ N✓
DATE EXT/PREP:	11/03/85	SEP. FUNNEL	Y_ N✓
DATE ANALYZED:	11/21/85	CONT. EXT.	Y✓ N_
SPL-->EXTRACT:	1L:2ML		
PH:	Not Analyzed		
% MOISTURE (NOT DEC.):	Not Analyzed		
% MOISTURE (DEC.):	Not Analyzed		
STANDARD ID:	BNA772		
SENSITIVITY ID:	FSS513		
UNITS:	UG/L		

PP #	CAS #		CONC
65A	108-95-2	PHENOL	20. U
18B	111-44-4	BIS (2-CHLOROETHYL) ETHER	20. U
24A	95-57-8	2-CHLOROPHENOL	20. U
26B	541-73-1	1,3-DICHLOROBENZENE	20. U
[redacted]	106-46-7	1,4-DICHLOROBENZENE	20. U
[redacted]	100-51-6	BENZYL ALCOHOL	20. U
25B	95-50-1	1,2-DICHLOROBENZENE	20. U
2H	95-48-7	2-METHYLPHENOL	20. U
42B	39638-32-9	BIS (2-CHLOROISOPROPYL) ETHER	20. U
3H	106-44-5	4-METHYLPHENOL	20. U
63B	621-64-7	N-NITROSO-DI-N-PROPLYAMINE	20. U
12B	67-72-1	HEXACHLOROETHANE	20. U
56B	98-95-3	NITROBENZENE	20. U
54B	78-59-1	ISOPHORONE	20. U
57A	88-75-5	2-NITROPHENOL	20. U
34A	105-67-9	2,4-DIMETHYLPHENOL	20. U
1H	65-85-0	BENZOIC ACID	100. U
43B	111-91-1	BIS (2-CHLOROETHOXY) METHANE	20. U
31A	120-33-2	2,4-DICHLOROPHENOL	20. U
8B	120-82-1	1,2,4-TRICHLOROBENZENE	20. U
55B	91-20-3	NAPHTHALENE	20. U
7H	106-47-8	4-CHLOROANILINE	20. U
52B	87-68-3	HEXACHLOROBUTADIENE	20. U
22A	59-50-7	4-CHLORO-3-METHYLPHENOL	20. U
9H	91-57-6	2-METHYLNAPHTHALENE	20. U
53B	77-47-4	HEXACHLOROCYCLOPENTADIENE	20. U
21A	88-06-2	2,4,6-TRICHLOROPHENOL	20. U
4H	95-95-4	2,4,5-TRICHLOROPHENOL	100. U
20B	91-58-7	2-CHLORONAPHTHALENE	20. U
[redacted]	88-74-4	2-NITROANILINE	100. U
[redacted]	131-11-3	DIMETHYLPHTHALATE	20. U
77B	208-96-8	ACENAPHTHALENE	20. U
11H	99-09-2	3-NITROANILINE	100. U
1B	83-32-9	ACENAPHTHENE	20. U
59A	51-28-5	2,4-DINITROPHENOL	100. U

AR100242

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB827

LABORATORY: IT/CERR
LABORATORY ID: 3488682
MATRIX: WATER

CASE #/SAS #: 5110
QC REPORT #: 6962-231
CONTRACT #: 68-01-6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY: Cheryl Sahr

SEMIVOLATILE COMPOUNDS (PAGE 2)

LEVEL:	LOW	GPC	Y_ N✓
DATE EXT/PREP:	11/03/85	SEP. FUNNEL	Y_ N✓
DATE ANALYZED:	11/21/85	CONT. EXT.	Y✓ N_
SPL--)EXTRACT:	1L:2ML		
PH:	Not Analyzed		
% MOISTURE (NOT DEC.):	Not Analyzed		
% MOISTURE (DEC.):	Not Analyzed		
STANDARD ID:	BNA772		
SENSITIVITY ID:	FSS513		
UNITS:	UG/L		

PP #	CAS #		CONC
58A	100-02-7	4-NITROPHENOL	100. U
8H	132-64-9	DIBENZOFURAN	20. U
35B	121-14-2	2,4-DINITROTOLUENE	20. U
36B	606-20-2	2,6-DINITROTOLUENE	20. U
70B	84-66-2	DIETHYLPHTHALATE	20. U
40B	7005-72-3	4-CHLOROPHENYLPHENYL ETHER	20. U
80B	86-73-7	FLUORENE	20. U
12H	100-01-6	4-NITROANILINE	100. U
60A	534-52-1	4,6-DINITRO-O-CRESOL	100. U
62B	86-30-6	N-NITROSODIPHENYLAMINE	20. U
41B	101-55-3	4-BROMOPHENOXYBENZENE	20. U
9B	118-74-1	HEXACHLOROBENZENE	20. U
64A	87-86-5	PENTACHLOROPHENOL	100. U
81B	85-01-8	PHENANTHRENE	20. U
78B	120-12-7	ANTHRACENE	20. U
68B	84-74-2	DI-N-BUTYLPHTHALATE	20. U
39B	206-44-0	FLUORANTHENE	20. U
84B	129-00-0	PYRENE	20. U
67B	85-68-7	BUTYLBENZYLPHTHALATE	20. U
28B	91-94-1	3,3'-DICHLOROBENZIDINE	40. U
72B	56-55-3	BENZO (A) ANTHRACENE	20. U
66B	117-81-7	BIS (2-ETHYLHEXYL) PHTHALATE	20. U
76B	218-01-9	CHRYSENE	20. U
69B	117-84-0	DI-N-OCTYLPHTHALATE	20. U
74B	205-99-2	BENZO (B & K) FLUORANTHENE	20. U
73B	50-32-8	BENZO (A) PYRENE	20. U
83B	193-39-5	INDENO-1,2,3 (C,D) PYRENE	20. U
82B	53-70-3	DIBENZO (A,H) ANTHRACENE	20. U
79B	191-24-2	BENZO (G,H,I) PERYLENE	20. U

ALL RESULTS ARE REPORTED ON A WET WEIGHT BASIS.

Sample #: CB827

Laboratory: IT/Cerritos
Lab ID: 314-17
Lab ID for Dil:
Sample Matrix: Water
Data Release Authorized by: TAR/TAR

Case #/SAS #: 5110
QC Report #: 6962-231
Contract #: 68-01-6962
Date Rec'd: 10-31-85

Organics Analysis Data Sheet
Pesticide/PCB's

Sample Level: Low
Date Extracted: 11-1-85
Date Analyzed: 11-15-85
Spl->Extract: 1l → 10ml; 5ml → 5ml
For Dilution:
pH: Not Analyzed
% Moisture: Not Analyzed
% Moisture (Decanted): Not Analyzed
Lab Std ID: 314-455

ALL RESULTS ARE REPORTED ON WET WEIGHT BASIS.

Circle Units: ug/Kg, (ug/L)

319-84-6	alpha-BHC	0.054
319-85-7	beta-BHC	
319-86-8	delta-BHC	
58-89-9	gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	0.14
72-55-9	4,4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4,4'-DDD	
1031-07-8	Endosulfan Sulfate	
50-29-3	4,4'-DDT	
72-43-5	Methoxychlor	0.54
53494-70-5	Endrin Ketone	0.14
57-74-9	Chlordane	0.54
8001-35-2	Toxaphene	14
12674-11-2	Arochlor-1016	0.54
11104-28-2	Arochlor-1221	
11141-16-5	Arochlor-1232	
53469-21-9	Arochlor-1242	
12672-29-6	Arochlor-1248	
11097-69-1	Arochlor-1254	14
11096-82-5	Arochlor-1260	

U - Analyzed for but not detected (Reported Value is Detection Limit-DL)
J - Estimated Value (0 < Value < DL)
C - Confirmed by GC/MS-GC Quantitation
B - Compound found in Blank. Sample results are not Blank Corrected.
** - Detected below GC/MS DL-GC Quantitation
N - Not Confirmed by GC/MS-GC/MS DL
NA - Not Analyzed
NR - Not Reported

V_i = Volume of extract injected (ul)
V_s = Volume of water extracted (ml)
W_s = Weight of sample extracted (g)
V_t = Volume of total extract (ul)

V_s 1000 ml or
W_s — g
V_t 10,000 ul
V_i 5 ul

Surrogate Spike Recoveries — Circle Units: ug/Kg, (ug/L)

Lab ID	Fraction	Compound	Conc. Sample	Conc. Spiked	% Recovery
314-17	Pest.	Dibutyl Chlorendate	0.71	1.0	71

* - Asterisked Values are outside QC Limits. NS - Not Spiked
# - _____ Recoveries due to Dilution.
@ - _____ Recoveries due to Matrix Effects.

Rev 8/85

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB827

LABORATORY: IT/CERR
LABORATORY ID: 34886N5
MATRIX: WATER

CASE #/SAS #: 5110
QC REPORT #: 6962-231
CONTRACT #: 6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY: Cheryl Wurl

VOLATILE COMPOUNDS

SURROGATE SPIKE RECOVERIES

LEVEL:	LOW
DATE EXT/PREP:	11/07/85
DATE ANALYZED:	11/07/85
SPL-->EXTRACT:	5ML
PH:	Not Analyzed
% MOISTURE (NOT DEC.):	Not Analyzed
% MOISTURE (DEC.):	Not Analyzed
STANDARD ID:	VOA510
SENSITIVITY ID:	BFD454
UNITS:	UG/L

LAB ID	COMPOUND	SAMPLE	SPIKED	% RECOVERY
	TOLUENE-D8	50.	50.	100
34886N5	4-BROMOFLUOROBENZENE	50.	50.	100
	1,2-DICHLOROETHANE-D4	51.	50.	102

* - ASTERISKED VALUES ARE OUTSIDE QC LIMITS NS - NOT SPIKED
# - _____ RECOVERIES DUE TO DILUTION
& - _____ RECOVERIES DUE TO MATRIX EFFECTS

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	SCAN #	CONC(J)
1		NONE FOUND		
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

AR100245

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB827

LABORATORY: IT/CERR
LABORATORY ID: 3488682
MATRIX: WATER

CASE #/SAS #: 5110
QC REPORT #: 6962-231
CONTRACT #: 68-01-6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY: Cheryl Susan

SEMIVOLATILE COMPOUNDS
SURROGATE SPIKE RECOVERIES

LEVEL:	LOW	GPC	Y_ N✓
DATE EXT/PREP:	11/03/85	SEP. FUNNEL	Y_ N✓
DATE ANALYZED:	11/21/85	CONT. EXT.	Y✓ N_
SPL--EXTRACT:	1L:2ML		
PH:	Not Analyzed		
% MOISTURE (NOT DEC.):	Not Analyzed		
% MOISTURE (DEC.):	Not Analyzed		
STANDARD ID:	BNA772		
SENSITIVITY ID:	FSS513		
UNITS:	UG/L		

LAB ID	COMPOUND	SAMPLE	SPIKED	% RECOVERY
	NITROBENZENE-D5	61.	103.	59
	2-FLUOROBIPHENYL	80.	104.	77
3488682	P-TERPHENYL-D14	53.	104.	51
	PHENOL-D5	44.	207.	21
	2-FLUOROPHENOL	91.	204.	45
	2,4,6-TRIBROMOPHENOL	87.	206.	42

* - ASTERISKED VALUES ARE OUTSIDE QC LIMITS NS - NOT SPIKED
# - _____ RECOVERIES DUE TO DILUTION
$ - _____ RECOVERIES DUE TO MATRIX EFFECTS

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	SCAN #	CONC(J)
1		NONE FOUND		
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

AR100246

DATA REPORTING QUALIFIERS

VALUE	IF THE RESULT IS A VALUE GREATER THAN OR EQUAL TO THE DETECTION LIMIT REPORT THE VALUE.
U	INDICATES COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM ATTAINABLE DETECTION LIMIT FOR THE SAMPLE.
J	INDICATES AN ESTIMATED VALUE. THIS FLAG IS USED EITHER WHEN ESTIMATING A CONCENTRATION FOR TENTATIVELY IDENTIFIED COMPOUNDS WHERE A 1:1 RESPONSE IS ASSUMED OR WHEN THE MASS SPECTRAL DATA INDICATES THE PRESENCE OF A COMPOUND THAT MEETS THE IDENTIFICATION CRITERIA BUT THE RESULT IS LESS THAN THE SPECIFIED DETECTION LIMIT BUT GREATER THAN ZERO.
C	THIS FLAG APPLIES TO PESTICIDE PARAMETERS WHERE THE IDENTIFICATION HAS BEEN CONFIRMED BY GCMS. SINGLE COMPONENT PESTICIDES GREATER THAN OR EQUAL TO 10NG/UL IN THE FINAL EXTRACT SHOULD BE CONFIRMED BY GCMS.
B	THIS FLAG IS USED WHEN THE ANALYTE IS FOUND IN THE BLANK AS WELL AS IN THE SAMPLE. IT INDICATES POSSIBLE/PROBABLE BLANK COMTAMINATION AND WARNS THE DATA USER TO TAKE APPROPRIATE ACTION.

QUALITY CONTROL REPORT
MATRIX SPIKE (MS AND MSD)
% RECOVERY AND RPD SUMMARY
LABORATORY: IT/WCTS

CASE #/SAS #: 5110 SAMPLE #: CB827
LEVEL: LOW CONTRACT #: 68-01-6962
MATRIX: WATER UNITS: UG/L
Q.C. REPORT #: 6962-231

ORIGINAL (Red)

BASE/NEUTRAL AND ACID COMPOUNDS

COMPOUND	CONC SPKD (UG/L)	CONC SAMPLE	CONC MS	% REC MS	CONC MSD	% REC MSD	RPD
RICHLOROBENZENE	104.	20. U	69.	66	70.	67	-1
CENAPHTHENE	101.	20. U	76.	75	77.	76	-1
,4-DINITROTOLUENE	101.	20. U	62.	61	60.	60	3
~~I-N-BUTYLPHTHALATE~~	~~104.~~	~~20. U~~	~~18. J~~	~~17~~	~~18. J~~	~~17~~	~~0~~ (CS)
YRENE	103.	20. U	64.	62	79.	77	-21
ITROSOPROPYLAMINE	103.	20. U	68.	66	69.	67	-1
,4-DICHLOROBENZENE	102.	20. U	65.	64	64.	63	2
ENTACHLOROPHENOL	208.	100. U	99. J	48	110.	53	-10
HENOL	203.	20. U	120.	59	120.	59	0
-CHLOROPHENOL	213.	20. U	140.	66	130.	61	8
-CHLORO-M-CRESOL	207.	20. U	100.	48	120.	58	-18
-N[illegible]OPHENOL	216.	100. U	160.	74	160.	74	0
ITROBENZENE-D5	103.	61.	80.	78	81.	79	-1
-FLUOROBIPHENYL	104.	80.	85.	82	86.	83	-1
-TERPHENYL-D14	104.	53.	56.	54	70.	67	-22
HENOL-D5	207.	44.	89.	43	99.	48	-10
-FLUOROPHENOL	204.	91.	101.	50	149.	73	-38
RIBROMOPHENOL	206.	87.	148.	72	149.	72	-1

* - ASTERISKED VALUES ARE OUTSIDE QC LIMITS

RPD=(MS-MSD)/((MS+MSD)/2)*100

RECOVERY: B/N'S 0 OUT OF ~~20~~ 18 (CS) OUTSIDE QC LIMITS
ACIDS 0 OUT OF 16 OUTSIDE QC LIMITS

RPD: B/N'S 0 OUT OF ~~10~~ 9 (CS) OUTSIDE QC LIMITS
ACIDS 0 OUT OF 8 OUTSIDE QC LIMITS

Summary of Unspiked HSL's

Compound	Conc. Sample	Conc. MS	Conc. MSD	RPD
None Found	20u	20u	20u	ø

AR100248

DATA REPORTING QUALIFIERS

VALUE	IF THE RESULT IS A VALUE GREATER THAN OR EQUAL TO THE DETECTION LIMIT REPORT THE VALUE.
U	INDICATES COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM ATTAINABLE DETECTION LIMIT FOR THE SAMPLE.
J	INDICATES AN ESTIMATED VALUE. THIS FLAG IS USED EITHER WHEN ESTIMATING A CONCENTRATION FOR TENTATIVELY IDENTIFIED COMPOUNDS WHERE A 1:1 RESPONSE IS ASSUMED OR WHEN THE MASS SPECTRAL DATA INDICATES THE PRESENCE OF A COMPOUND THAT MEETS THE IDENTIFICATION CRITERIA BUT THE RESULT IS LESS THAN THE SPECIFIED DETECTION LIMIT BUT GREATER THAN ZERO.
C	THIS FLAG APPLIES TO PESTICIDE PARAMETERS WHERE THE IDENTIFICATION HAS BEEN CONFIRMED BY GCMS. SINGLE COMPONENT PESTICIDES GREATER THAN OR EQUAL TO 10NG/UL IN THE FINAL EXTRACT SHOULD BE CONFIRMED BY GCMS.
B	THIS FLAG IS USED WHEN THE ANALYTE IS FOUND IN THE BLANK AS WELL AS IN THE SAMPLE. IT INDICATES POSSIBLE/PROBABLE BLANK COMTAMINATION AND WARNS THE DATA USER TO TAKE APPROPRIATE ACTION.

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB828

LABORATORY: IT/CERR
LABORATORY ID: 3438686
MATRIX: WATER

CASE #/SAS #: 5110
QC REPORT #: 6962-231
CONTRACT #: 68-01-6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY: Cheryl Wiehl

SEMIVOLATILE COMPOUNDS (PAGE 1)

LEVEL:	LOW	GPC	Y_ N✓
DATE EXT/PREP:	11/03/85	SEP. FUNNEL	Y_ N✓
DATE ANALYZED:	11/21/85	CONT. EXT.	Y✓ N_
SPL-->EXTRACT:	1L:2ML		
PH:	Not Analyzed		
% MOISTURE (NOT DEC.):	Not Analyzed		
% MOISTURE (DEC.):	Not Analyzed		
STANDARD ID:	BNA772		
SENSITIVITY ID:	FSS513		
UNITS:	UG/L		

PP #	CAS #		CONC
65A	108-95-2	PHENOL	20. U
18B	111-44-4	BIS (2-CHLOROETHYL) ETHER	20. U
24A	95-57-8	2-CHLOROPHENOL	20. U
26B	541-73-1	1,3-DICHLOROBENZENE	20. U
[redacted]	106-46-7	1,4-DICHLOROBENZENE	20. U
[redacted]	100-51-6	BENZYL ALCOHOL	20. U
25B	95-50-1	1,2-DICHLOROBENZENE	20. U
2H	95-48-7	2-METHYLPHENOL	20. U
42B	39638-32-9	BIS (2-CHLOROISOPROPYL) ETHER	20. U
3H	106-44-5	4-METHYLPHENOL	20. U
63B	621-64-7	N-NITROSO-DI-N-PROPLYAMINE	20. U
12B	67-72-1	HEXACHLOROETHANE	20. U
56B	98-95-3	NITROBENZENE	20. U
54B	78-59-1	ISOPHORONE	20. U
57A	88-75-5	2-NITROPHENOL	20. U
34A	105-67-9	2,4-DIMETHYLPHENOL	20. U
1H	65-85-0	BENZOIC ACID	100. U
43B	111-91-1	BIS (2-CHLOROETHOXY) METHANE	20. U
31A	120-83-2	2,4-DICHLOROPHENOL	20. U
8B	120-82-1	1,2,4-TRICHLOROBENZENE	20. U
55B	91-20-3	NAPHTHALENE	20. U
7H	106-47-8	4-CHLOROANILINE	20. U
52B	87-68-3	HEXACHLOROBUTADIENE	20. U
22A	59-50-7	4-CHLORO-3-METHYLPHENOL	20. U
9H	91-57-6	2-METHYLNAPHTHALENE	20. U
53B	77-47-4	HEXACHLOROCYCLOPENTADIENE	20. U
21A	88-06-2	2,4,6-TRICHLOROPHENOL	20. U
4H	95-95-4	2,4,5-TRICHLOROPHENOL	100. U
20B	91-58-7	2-CHLORONAPHTHALENE	20. U
10H	88-74-4	2-NITROANILINE	100. U
[redacted]	131-11-3	DIMETHYLPHTHALATE	20. U
[redacted]	208-96-8	ACENAPHTHALENE	20. U
11H	99-09-2	3-NITROANILINE	100. U
1B	83-32-9	ACENAPHTHENE	20. U
59A	51-28-5	2,4-DINITROPHENOL	100. U

AR100250

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB828

LABORATORY: IT/CERR
LABORATORY ID: 34886N2
MATRIX: WATER
CASE #/SAS #: 5110
QC REPORT #: 6962-231
CONTRACT #: 6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY: Chrystine

VOLATILE COMPOUNDS

LEVEL:	LOW
DATE EXT/PREP:	11/07/85
DATE ANALYZED:	11/07/85
SPL-->EXTRACT:	5ML
PH:	Not Analyzed
% MOISTURE (NOT DEC.):	Not Analyzed
% MOISTURE (DEC.):	Not Analyzed
STANDARD ID:	VOA510
SENSITIVITY ID:	BFD454
UNITS:	UG/L

PP #	CAS #		CONC	
45V	74-87-3	CHLOROMETHANE	10. U	
46V	74-83-9	BROMOMETHANE	10. U	
88V	75-01-4	VINYL CHLORIDE	10. U	
16V	75-00-3	CHLOROETHANE	10. U	
44V	75-09-2	METHYLENE CHLORIDE	23.	B
13H	67-64-1	ACETONE	10. U	
15H	75-15-0	CARBON DISULFIDE	5. U	
29V	75-35-4	1,1-DICHLOROETHENE	5. U	
13V	75-34-3	1,1-DICHLOROETHANE	5. U	
30V	156-60-5	TRANS-1,2-DICHLOROETHENE	5. U	
23V	67-66-3	CHLOROFORM	5. U	
10V	107-06-2	1,2-DICHLOROETHANE	5. U	
14H	78-93-3	2-BUTANONE	10. U	
11V	71-55-6	1,1,1-TRICHLOROETHANE	5. U	
6V	56-23-5	CARBON TETRACHLORIDE	5. U	
19H	108-05-4	VINYL ACETATE	10. U	
48V	75-27-4	BROMODICHLOROMETHANE	5. U	
32V	78-87-5	1,2-DICHLOROPROPANE	5. U	
33VT	10061-02-6	TRANS-1,3-DICHLOROPROPENE	5. U	
87V	79-01-6	TRICHLOROETHENE	5. U	
51V	124-48-1	CHLORODIBROMOMETHANE	5. U	
.4V	79-00-5	1,1,2-TRICHLOROETHANE	5. U	
4V	71-43-2	BENZENE	5. U	
33VC	10061-01-5	CIS-1,3-DICHLOROPROPENE	5. U	
.9V	110-75-8	2-CHLOROETHYLVINYL ETHER	10. U	
47V	75-25-2	BROMOFORM	5. U	
16H	519-78-6	2-HEXANONE	10. U	
.7H	108-10-1	4-METHYL-2-PENTANONE	10. U	
35V	127-18-4	TETRACHLOROETHENE	5. U	
15V	79-34-5	1,1,2,2-TETRACHLOROETHANE	5. U	
36V	108-88-3	TOLUENE	5. U	
7V	108-90-7	CHLOROBENZENE	5. U	
38V	100-41-4	ETHYLBENZENE	5. U	
18H	100-42-5	STYRENE	5. U	
20H	95-47-6	TOTAL XYLENES	5. U	

AR100251

Sample #: CB828

Laboratory: IT/Cerritos
Lab ID: 314-18
Lab ID for Dil:
Sample Matrix: Water
Data Release Authorized by: TAR/TAR Cheryl Uzuhe

Case #/SAS #: 5110
QC Report #: 6962-231
Contract #: 68-01-6962
Date Rec'd: 10-31-85

Organics Analysis Data Sheet
Pesticide/PCB's

Sample Level: Low
Date Extracted: 11-1-85
Date Analyzed: 11-15-85
Spl->Extract: 1L → 10ml; 5ml → 5ml
For Dilution:
pH: Not Analyzed
% Moisture: Not Analyzed
% Moisture (Decanted): Not Analyzed
Lab Std ID: 314-455

ALL RESULTS ARE REPORTED ON WET WEIGHT BASIS.

		Circle Units: ug/Kg, (ug/L)
319-84-6	alpha-BHC	0.054
319-85-7	beta-BHC	
319-86-8	delta-BHC	
58-89-9	gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	0.14
72-55-9	4,4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4,4'-DDD	
1031-07-8	Endosulfan Sulfate	
50-29-3	4,4'-DDT	
72-43-5	Methoxychlor	0.54
53494-70-5	Endrin Ketone	0.14
57-74-9	Chlordane	0.54
8001-35-2	Toxaphene	14
12674-11-2	Arochlor-1016	0.54
11104-28-2	Arochlor-1221	
11141-16-5	Arochlor-1232	
53469-21-9	Arochlor-1242	
12672-29-6	Arochlor-1248	
11097-69-1	Arochlor-1254	14
11096-82-5	Arochlor-1260	

U - Analyzed for but not detected (Reported Value is Detection Limit-DL)
J - Estimated Value (0 < Value < DL)
C - Confirmed by GC/MS-GC Quantitation
B - Compound found in Blank. Sample results are not Blank Corrected.
** - Detected below GC/MS DL-GC Quantitation
N - Not Confirmed by GC/MS-GC/MS DL
NA - Not Analyzed
NR - Not Reported

V_i = Volume of extract injected (ul)
V_s = Volume of water extracted (ml)
W_s = Weight of sample extracted (g)
V_t = Volume of total extract (ul)

V_s 1000 ml or
W_s ____ g
V_t 10,000 ul
V_i 5 ul

Surrogate Spike Recoveries — Circle Units: ug/Kg, (ug/L)

Lab ID	Fraction	Compound	Conc. Sample	Conc. Spiked	% Recovery
314-18	Pest.	Dibutyl Chlorendate	0.92	1.0	92

AR100252

* - Asterisked Values are outside QC Limits.
# - _____ Recoveries due to Dilution.
$ - _____ Recoveries due to Matrix Effects.
NS - Not Spiked

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB828

LABORATORY: IT/CERR
LABORATORY ID: 3488686
MATRIX: WATER

CASE #/SAS #: 5110
QC REPORT #: 6962-231
CONTRACT #: 68-01-6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY: Cheryl Swirl

SEMIVOLATILE COMPOUNDS (PAGE 2)

LEVEL:	LOW	GPC	Y_ N✓
DATE EXT/PREP:	11/03/85	SEP. FUNNEL	Y_ N✓
DATE ANALYZED:	11/21/85	CONT. EXT.	Y✓ N_
SPL-->EXTRACT:	1L:2ML		
PH:	Not Analyzed		
% MOISTURE (NOT DEC.):	Not Analyzed		
% MOISTURE (DEC.):	Not Analyzed		
STANDARD ID:	BNA772		
SENSITIVITY ID:	FSS513		
UNITS:	UG/L		

PP #	CAS #		CONC
58A	100-02-7	4-NITROPHENOL	100. U
8H	132-64-9	DIBENZOFURAN	20. U
35B	121-14-2	2,4-DINITROTOLUENE	20. U
36B	606-20-2	2,6-DINITROTOLUENE	20. U
70B	84-66-2	DIETHYLPHTHALATE	20. U
40B	7005-72-3	4-CHLOROPHENYLPHENYL ETHER	20. U
80B	86-73-7	FLUORENE	20. U
12H	100-01-6	4-NITROANILINE	100. U
60A	534-52-1	4,6-DINITRO-O-CRESOL	100. U
62B	86-30-6	N-NITROSODIPHENYLAMINE	20. U
41B	101-55-3	4-BROMOPHENOXYBENZENE	20. U
9B	118-74-1	HEXACHLOROBENZENE	20. U
64A	87-86-5	PENTACHLOROPHENOL	100. U
81B	85-01-8	PHENANTHRENE	20. U
78B	120-12-7	ANTHRACENE	20. U
68B	84-74-2	DI-N-BUTYLPHTHALATE	20. U
39B	206-44-0	FLUORANTHENE	20. U
84B	129-00-0	PYRENE	20. U
67B	85-68-7	BUTYLBENZYLPHTHALATE	20. U
28B	91-94-1	3,3'-DICHLOROBENZIDINE	40. U
72B	56-55-3	BENZO (A) ANTHRACENE	20. U
66B	117-81-7	BIS (2-ETHYLHEXYL) PHTHALATE	20. U
76B	218-01-9	CHRYSENE	20. U
69B	117-84-0	DI-N-OCTYLPHTHALATE	20. U
74B	205-99-2	BENZO (B & K) FLUORANTHENE	20. U
73B	50-32-8	BENZO (A) PYRENE	20. U
83B	193-39-5	INDENO-1,2,3 (C,D) PYRENE	20. U
82B	53-70-3	DIBENZO (A,H) ANTHRACENE	20. U
79B	191-24-2	BENZO (G,H,I) PERYLENE	20. U

ALL RESULTS ARE REPORTED ON A WET WEIGHT BASIS.

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB828

BORATORY: IT/CERR
BORATORY ID: 34886N2
T WATER

CASE #/SAS #: 5110
QC REPORT #: 6962-231
CONTRACT #: 6962
DATE RECEIVED: 10/31/85

TA RELEASE AUTHORIZED BY: Chrystie Suhl

VOLATILE COMPOUNDS

SURROGATE SPIKE RECOVERIES

LEVEL:	LOW
DATE EXT/PREP:	11/07/85
DATE ANALYZED:	11/07/85
SPL--EXTRACT:	5ML
PH:	Not Analyzed
% MOISTURE (NOT DEC.):	Not Analyzed
% MOISTURE (DEC.):	Not Analyzed
STANDARD ID:	VOA510
SENSITIVITY ID:	BFD454
UNITS:	UG/L

AB ID	COMPOUND	SAMPLE	SPIKED	% RECOVERY
	TOLUENE-D8	50.	50.	100
886N2	4-BROMOFLUOROBENZENE	50.	50.	100
	1,2-DICHLOROETHANE-D4	51.	50.	102

- STERISKED VALUES ARE OUTSIDE QC LIMITS NS - NOT SPIKED
- _____ RECOVERIES DUE TO DILUTION
- _____ RECOVERIES DUE TO MATRIX EFFECTS

TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	COMPOUND NAME	SCAN #	CONC(J)
	NONE FOUND		

AR100254

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB928

LABORATORY: LT/CERR
LABORATORY ID: 3488686
MATRIX: WATER

CASE #/SAS #: 5110
QC REPORT #: 6962-231
CONTRACT #: 68-01-6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY: Chrystine

SEMIVOLATILE COMPOUNDS
SURROGATE SPIKE RECOVERIES

LEVEL:	LOW	GPC	Y_ N✓
DATE EXT/PREP:	11/03/85	SEP. FUNNEL	Y_ N✓
DATE ANALYZED:	11/21/85	CONT. EXT.	Y✓ N_
SPL--EXTRACT:	1L:2ML		
PH:	Not Analyzed		
% MOISTURE (NOT DEC.):	Not Analyzed		
% MOISTURE (DEC.):	Not Analyzed		
STANDARD ID:	BNA772		
SENSITIVITY ID:	FSS513		
UNITS:	UG/L		

LAB ID	COMPOUND	SAMPLE	SPIKED	% RECOVERY
	NITROBENZENE-D5	73.	103.	71
	2-FLUOROBIPHENYL	77.	104.	74
3488686	P-TERPHENYL-D14	49.	104.	47
	PHENOL-D5	13. J	207.	6 *
	2-FLUOROPHENOL	32.	204.	16 *
	2,4,6-TRIBROMOPHENOL	32.	206.	16

* - ASTERISKED VALUES ARE OUTSIDE QC LIMITS NS - NOT SPIKED
# - _____ RECOVERIES DUE TO DILUTION
$ - _____ RECOVERIES DUE TO MATRIX EFFECTS

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	SCAN #	CONC(J)
1		NONE FOUND		
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				

AR100255

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB842

[illegible]TORY: IT/CERR
[illegible]TORY ID: 34886N4
[illegible]TRIX: WATER

CASE #/SAS #: 5110
QC REPORT #: 6962-231
CONTRACT #: 6962
DATE RECEIVED: 10/31/85

[illegible]TA RELEASE AUTHORIZED BY: Chrystie Sahl

VOLATILE COMPOUNDS

LEVEL:	LOW
DATE EXT/PREP:	11/07/85
DATE ANALYZED:	11/07/85
SPL-->EXTRACT:	5ML
PH:	Not Analyzed
% MOISTURE (NOT DEC.):	Not Analyzed
% MOISTURE (DEC.):	Not Analyzed
STANDARD ID:	VOA510
SENSITIVITY ID:	BFD45#
UNITS:	UG/L

[illegible] #	CAS #		CONC	
[illegible]V	74-87-3	CHLOROMETHANE	10. U	
[illegible]V	74-83-9	BROMOMETHANE	10. U	
[illegible]V	75-01-4	VINYL CHLORIDE	10. U	
[illegible]V	75-00-3	CHLOROETHANE	10. U	
[illegible]V	75-09-2	METHYLENE CHLORIDE	17.	B
[illegible]H	67-64-1	ACETONE	10. U	
[illegible]H	75-15-0	CARBON DISULFIDE	5. U	
[illegible]V	75-35-4	1,1-DICHLOROETHENE	5. U	
[illegible]V	75-34-3	1,1-DICHLOROETHANE	5. U	
[illegible]V	156-60-5	TRANS-1,2-DICHLOROETHENE	5. U	
[illegible]V	67-66-3	CHLOROFORM	5. U	
[illegible]V	107-06-2	1,2-DICHLOROETHANE	5. U	
[illegible]H	78-93-3	2-BUTANONE	10. U	
[illegible].V	71-55-6	1,1,1-TRICHLOROETHANE	5. U	
[illegible]V	56-23-5	CARBON TETRACHLORIDE	5. U	
[illegible]H	108-05-4	VINYL ACETATE	10. U	
[illegible]V	75-27-4	BROMODICHLOROMETHANE	5. U	
[illegible]V	78-87-5	1,2-DICHLOROPROPANE	5. U	
[illegible]VT	10061-02-6	TRANS-1,3-DICHLOROPROPENE	5. U	
[illegible]V	79-01-6	TRICHLOROETHENE	5. U	
[illegible].V	124-48-1	CHLORODIBROMOMETHANE	5. U	
[illegible]V	79-00-5	1,1,2-TRICHLOROETHANE	5. U	
[illegible]V	71-43-2	BENZENE	5. U	
[illegible]VC	10061-01-5	CIS-1,3-DICHLOROPROPENE	5. U	
[illegible]V	110-75-8	2-CHLOROETHYLVINYL ETHER	10. U	
[illegible]V	75-25-2	BROMOFORM	5. U	
[illegible]H	519-78-6	2-HEXANONE	10. U	
[illegible]H	108-10-1	4-METHYL-2-PENTANONE	10. U	
[illegible]V	127-18-4	TETRACHLOROETHENE	5. U	
[illegible]V	79-34-5	1,1,2,2-TETRACHLOROETHANE	5. U	
[illegible]V	108-88-3	TOLUENE	5. U	
[illegible]V	108-90-7	CHLOROBENZENE	5. U	
[illegible]V	100-41-4	ETHYLBENZENE	5. U	
[illegible]H	100-42-5	STYRENE	5. U	
[illegible]H	95-47-6	TOTAL XYLENES	5. U	

[illegible] RESULTS ARE REPORTED ON A WET WEIGHT BASIS

AR100256

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB842

LABORATORY: IT/CERR
LABORATORY ID: 3488687
MATRIX: WATER

CASE #/SAS #: 5110
QC REPORT #: 6962-231
CONTRACT #: 68-01-6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY: Chrysluraint

SEMIVOLATILE COMPOUNDS (PAGE 1)

LEVEL:	LOW	GPC	Y_ N✓
DATE EXT/PREP:	11/03/85	SEP. FUNNEL	Y_ N✓
DATE ANALYZED:	11/21/85	CONT. EXT.	Y✓ N_
SPL--EXTRACT.	1L:2ML		
PH:	Not Analyzed		
% MOISTURE (NOT DEC.):	Not Analyzed		
% MOISTURE (DEC.):	Not Analyzed		
STANDARD ID:	BNA772		
SENSITIVITY ID:	FSS513		
UNITS:	UG/L		

PP #	CAS #		CONC
65A	108-95-2	PHENOL	20. U
18B	111-44-4	BIS (2-CHLOROETHYL) ETHER	20. U
24A	95-57-8	2-CHLOROPHENOL	20. U
26B	541-73-1	1,3-DICHLOROBENZENE	20. U
27B	106-46-7	1,4-DICHLOROBENZENE	20. U
6H	100-51-6	BENZYL ALCOHOL	20. U
25B	95-50-1	1,2-DICHLOROBENZENE	20. U
2H	95-48-7	2-METHYLPHENOL	20. U
42B	39638-32-9	BIS (2-CHLOROISOPROPYL) ETHER	20. U
3H	106-44-5	4-METHYLPHENOL	20. U
63B	621-64-7	N-NITROSO-DI-N-PROPLYAMINE	20. U
12B	67-72-1	HEXACHLOROETHANE	20. U
56B	98-95-3	NITROBENZENE	20. U
54B	78-59-1	ISOPHORONE	20. U
57A	88-75-5	2-NITROPHENOL	20. U
34A	105-67-9	2,4-DIMETHYLPHENOL	20. U
1H	65-85-0	BENZOIC ACID	100. U
43B	111-91-1	BIS (2-CHLOROETHOXY) METHANE	20. U
31A	120-33-2	2,4-DICHLOROPHENOL	20. U
8B	120-82-1	1,2,4-TRICHLOROBENZENE	20. U
55B	91-20-3	NAPHTHALENE	20. U
7H	106-47-8	4-CHLOROANILINE	20. U
52B	87-68-3	HEXACHLOROBUTADIENE	20. U
22A	59-50-7	4-CHLORO-3-METHYLPHENOL	20. U
9H	91-57-6	2-METHYLNAPHTHALENE	20. U
53B	77-47-4	HEXACHLOROCYCLOPENTADIENE	20. U
21A	88-06-2	2,4,6-TRICHLOROPHENOL	20. U
4H	95-95-4	2,4,5-TRICHLOROPHENOL	100. U
20B	91-58-7	2-CHLORONAPHTHALENE	20. U
10H	88-74-4	2-NITROANILINE	100. U
71B	131-11-3	DIMETHYLPHTHALATE	20. U
77B	208-96-8	ACENAPHTHALENE	20. U
11H	99-09-2	3-NITROANILINE	100. U
1B	83-32-9	ACENAPHTHENE	20. U
59A	51-28-5	2,4-DINITROPHENOL	100. U

ARI 00257

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB842

[redacted]RATORY: IT/CERR
[redacted]RATORY ID: 3488687
MATRIX: WATER

CASE #/SAS #: 5110
QC REPORT #: 6962-231
CONTRACT #: 68-01-6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY: Cheryl Wahl

SEMIVOLATILE COMPOUNDS (PAGE 2)

LEVEL:	LOW	GPC	Y_	N✓
DATE EXT/PREP:	11/03/85	SEP. FUNNEL	Y_	N✓
DATE ANALYZED:	11/21/85	CONT. EXT.	Y✓	N_
SPL-->EXTRACT:	1L:2ML			
PH:	Not Analyzed			
% MOISTURE (NOT DEC.):	Not Analyzed			
% MOISTURE (DEC.):	Not Analyzed			
STANDARD ID:	BNA772			
SENSITIVITY ID:	FSS513			
UNITS:	UG/L			

PP #	CAS #		CONC
58A	100-02-7	4-NITROPHENOL	100. U
8H	132-64-9	DIBENZOFURAN	20. U
35B	121-14-2	2,4-DINITROTOLUENE	20. U
36B	606-20-2	2,6-DINITROTOLUENE	20. U
7[redacted]	84-66-2	DIETHYLPHTHALATE	20. U
4[redacted]	7005-72-3	4-CHLOROPHENYLPHENYL ETHER	20. U
30B	86-73-7	FLUORENE	20. U
12H	100-01-6	4-NITROANILINE	100. U
50A	534-52-1	4,6-DINITRO-O-CRESOL	100. U
42B	86-30-6	N-NITROSODIPHENYLAMINE	20. U
41B	101-55-3	4-BROMOPHENOXYBENZENE	20. U
9B	118-74-1	HEXACHLOROBENZENE	20. U
54A	87-86-5	PENTACHLOROPHENOL	100. U
31B	85-01-8	PHENANTHRENE	20. U
78B	120-12-7	ANTHRACENE	20. U
68B	84-74-2	DI-N-BUTYLPHTHALATE	20. U
39B	206-44-0	FLUORANTHENE	20. U
34B	129-00-0	PYRENE	20. U
67B	85-68-7	BUTYLBENZYLPHTHALATE	20. U
28B	91-94-1	3,3'-DICHLOROBENZIDINE	40. U
72B	56-55-3	BENZO (A) ANTHRACENE	20. U
66B	117-81-7	BIS (2-ETHYLHEXYL) PHTHALATE	20. U
76B	218-01-9	CHRYSENE	20. U
69B	117-84-0	DI-N-OCTYLPHTHALATE	20. U
74B	205-99-2	BENZO (B & K) FLUORANTHENE	20. U
73B	50-32-8	BENZO (A) PYRENE	20. U
33B	193-39-5	INDENO-1,2,3 (C,D) PYRENE	20. U
32B	53-70-3	DIBENZO (A,H) ANTHRACENE	20. U
79B	191-24-2	BENZO (G,H,I) PERYLENE	20. U

A[redacted]ESULTS ARE REPORTED ON A WET WEIGHT BASIS.

AR100258

Sample #: CB842

Laboratory: IT/Cerritos
Lab ID: 314-19
Lab ID for Dil:
Sample Matrix: Water
Data Release Authorized by: TAR/TAR

Case #/SAS #: 5110
QC Report #: 6962-231
Contract #: 68-01-6962
Date Rec'd: 10-31-85

Organics Analysis Data Sheet
Pesticide/PCB's

Sample Level: Low
Date Extracted: 11-1-85
Date Analyzed: 11-16-85
Spl->Extract: 1l → 10ml; 5ml → 5ml
For Dilution:
pH: Not Analyzed
% Moisture: Not Analyzed
% Moisture (Decanted): Not Analyzed
Lab Std ID: 314-STD

ALL RESULTS ARE REPORTED ON WET WEIGHT BASIS.

Circle Units: ug/Kg, (ug/L)

319-84-6	alpha-BHC	0.05
319-85-7	beta-BHC	
319-86-8	delta-BHC	
58-89-9	gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	0.1
72-55-9	4,4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4,4'-DDD	
1031-07-8	Endosulfan Sulfate	
50-29-3	4,4'-DDT	
72-43-5	Methoxychlor	0.5
53494-70-5	Endrin Ketone	0.1
57-74-9	Chlordane	0.5
8001-35-2	Toxaphene	1
12674-11-2	Arochlor-1016	0.5
11104-28-2	Arochlor-1221	
11141-16-5	Arochlor-1232	
53469-21-9	Arochlor-1242	
12672-29-6	Arochlor-1248	
11097-69-1	Arochlor-1254	1
11096-82-5	Arochlor-1260	

U - Analyzed for but not detected (Reported Value is Detection Limit-DL)
J - Estimated Value (0 < Value < DL)
C - Confirmed by GC/MS-GC Quantitation
B - Compound found in Blank. Sample results are not Blank Corrected.
** - Detected below GC/MS DL-GC Quantitation
N - Not Confirmed by GC/MS-GC/MS DL
NA - Not Analyzed
NR - Not Reported

V_i = Volume of extract injected (ul)
V_s = Volume of water extracted (ml)
W_s = Weight of sample extracted (g)
V_t = Volume of total extract (ul)

V_s 1000 ml or
W_s — g
V_t 10,000 ul
V_i 1 ul

Surrogate Spike Recoveries — Circle Units: ug/Kg, (ug/L)

Lab ID	Fraction	Compound	Conc. Sample	Conc. Spiked	% Recovery
314-19	Pest.	Dibutyl Chlorendate	0.88	1.0	88

* - Asterisked Values are outside QC Limits.
NS - Not Spiked
- _____ Recoveries due to Dilution.
$ - _____ Recoveries due to Matrix Effects.

Rev 8/85

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB842

LABORATORY: IT/CERR
LABORATORY ID: 34886N4
MATRIX: WATER

CASE #/SAS #: 5110
QC REPORT #: 6962-231
CONTRACT #: 6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY: Cheryl Wesuhl

VOLATILE COMPOUNDS

SURROGATE SPIKE RECOVERIES

LEVEL:	LOW
DATE EXT/PREP:	11/07/85
DATE ANALYZED:	11/07/85
SPL-->EXTRACT:	5ML
PH:	Not Analyzed
% MOISTURE (NOT DEC.):	Not Analyzed
% MOISTURE (DEC.):	Not Analyzed
STANDARD ID:	VOA510
SENSITIVITY ID:	BFD454
UNITS:	UG/L

LAB ID	COMPOUND	SAMPLE	SPIKED	% RECOVERY
	TOLUENE-D8	51.	50.	102
34886N4	4-BROMOFLUOROBENZENE	50.	50.	100
	1,2-DICHLOROETHANE-D4	51.	50.	102

* - ASTERISKED VALUES ARE OUTSIDE QC LIMITS NS - NOT SPIKED
# - _____ RECOVERIES DUE TO DILUTION
& - _____ RECOVERIES DUE TO MATRIX EFFECTS

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	SCAN #	CONC(J)
1		NONE FOUND		
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

AR100260

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB842

LABORATORY: IT/CERR
LABORATORY ID: 34886B7
MATRIX: WATER

CASE #/SAS #: 5110
QC REPORT #: 6962-231
CONTRACT #: 68-01-6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY: Chrystie Swint

SEMIVOLATILE COMPOUNDS
SURROGATE SPIKE RECOVERIES

LEVEL:	LOW	GPC	Y_ N✓
DATE EXT/PREP:	11/03/85	SEP. FUNNEL	Y_ N✓
DATE ANALYZED:	11/21/85	CONT. EXT.	Y✓ N_
SPL--EXTRACT:	1L:2ML		
PH:	Not Analyzed		
% MOISTURE (NOT DEC.):	Not Analyzed		
% MOISTURE (DEC.):	Not Analyzed		
STANDARD ID:	BNA772		
SENSITIVITY ID:	FSS513		
UNITS:	UG/L		

LAB ID	COMPOUND	SAMPLE	SPIKED	% RECOVERY
	NITROBENZENE-D5	66.	103.	64
	2-FLUOROBIPHENYL	77.	104.	74
34886B7	P-TERPHENYL-D14	54.	104.	52
	PHENOL-D5	26.	207.	13
	2-FLUOROPHENOL	87.	204.	43
	2,4,6-TRIBROMOPHENOL	77.	206.	37

* - ASTERISKED VALUES ARE OUTSIDE QC LIMITS NS - NOT SPIKED
\# - _____ RECOVERIES DUE TO DILUTION
$ - _____ RECOVERIES DUE TO MATRIX EFFECTS

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	SCAN #	CONC(J)
1		NONE FOUND		
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				

AR100261

DATA REPORTING QUALIFIERS

VALUE	IF THE RESULT IS A VALUE GREATER THAN OR EQUAL TO THE DETECTION LIMIT REPORT THE VALUE.
J	INDICATES COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM ATTAINABLE DETECTION LIMIT FOR THE SAMPLE.
J	INDICATES AN ESTIMATED VALUE. THIS FLAG IS USED EITHER WHEN ESTIMATING A CONCENTRATION FOR TENTATIVELY IDENTIFIED COMPOUNDS WHERE A 1:1 RESPONSE IS ASSUMED OR WHEN THE MASS SPECTRAL DATA INDICATES THE PRESENCE OF A COMPOUND THAT MEETS THE IDENTIFICATION CRITERIA BUT THE RESULT IS LESS THAN THE SPECIFIED DETECTION LIMIT BUT GREATER THAN ZERO.
C	THIS FLAG APPLIES TO PESTICIDE PARAMETERS WHERE THE IDENTIFICATION HAS BEEN CONFIRMED BY GCMS. SINGLE COMPONENT PESTICIDES GREATER THAN OR EQUAL TO 10NG/UL IN THE FINAL EXTRACT SHOULD BE CONFIRMED BY GCMS.
B	THIS FLAG IS USED WHEN THE ANALYTE IS FOUND IN THE BLANK AS WELL AS IN THE SAMPLE. IT INDICATES POSSIBLE/PROBABLE BLANK COMTAMINATION AND WARNS THE DATA USER TO TAKE APPROPRIATE ACTION.

Case #/SAS #: 5110
Level: Low
Matrix: Water
QC Report #: 6962-231

Laboratory: IT/Cerritos
Quality Control Report
Matrix Spike(MS and MSD)
% Recovery and RPD Summary

Contract #: 68-D[redacted]62
Sample #: C[redacted]42
Units: ug/L

Fraction	Compound	ug/L Spiked	Conc. Sample	Conc. MS	% Rec. MS	Conc. MSD	% Rec. MSD	RPD	QC Limits * RPD	QC Limits * Recovery
Pest. SMO Sample # C[redacted]42	Lindane (gamma-BHC)	0.200	0 (0.054)	0.19	95	0.25	120 *	23 *	<15	56-123
	Heptachlor	0.205		0.14	68	0.16	78	13	<20	40-131
	Aldrin	0.204		0.11	54	0.12	59	9	<22	40-120
	Dieldrin	0.569	0 (0.14)	0.34	67	0.39	77	14	<18	52-126
	Endrin	0.523		0.49	94	0.54	103	10	<21	56-121
	4,4'-DDT	0.504		0.34	67	0.37	73	8	<27	38-127
	Dibutyl chlorendate **	1.0	0.88	0.75	75	0.79	79	5	—	24-154

* Asterisked Values are outside QC Limits.
** Advisory Limits.
# _____ Recoveries due to Dilution.
$ _____ Recoveries due to Matrix Effects.

$$RPD = \frac{|MS - MSD|}{(\frac{MS + MSD}{2})} \times 100$$

NA - Not Analyzed
NR - (Spiked but) Not Reported
NS - Not Spiked

RPD: Pests 1 out of 7 outside QC Limits

Recovery: Pests 1 out of 14 outside QC Limits

Comments: _____

Summary of Unspiked HSL's

Fraction	Compound	Conc. Sample	Conc. MS	Conc. MSD	RPD
Pest.	None Found	0.054	0.24	0.24	0

Note: This section lists compounds on the HSL which were found in the Sample, MS, and/or MSD. It does not include Tentatively Identified compounds which may have been found in the Sample.

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ARI 002663

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB832

LABORATORY: IT/CERR
LABORATORY ID: 34887B15
MATRIX: SOIL

CASE #/SAS #: 5110
QC REPORT #: 6952-239
CONTRACT #: 68-01-6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY:

SEMIVOLATILE COMPOUNDS (PAGE 1)

LEVEL:	LOW	GPC	Y_ N X
DATE EXT/PREP:	11/08/85	SEP. FUNNEL	Y_ N X
DATE ANALYZED:	11/24/85	CONT. EXT.	Y_ N X
SPL-->EXTRACT:	50.00G:1ML		
PH:	9.4		
% MOISTURE (NOT DEC.):	24.16		
% MOISTURE (DEC.):	Not Analyzed		
STANDARD ID:	BNA782		
SENSITIVITY ID:	FSS516		
UNITS:	UG/KG		

PP #	CAS #		CONC
65A	108-95-2	PHENOL	200. U
18B	111-44-4	BIS (2-CHLOROETHYL) ETHER	200. U
24A	95-57-8	2-CHLOROPHENOL	200. U
26B	541-73-1	1,3-DICHLOROBENZENE	200. U
2[redacted]	106-46-7	1,4-DICHLOROBENZENE	200. U
[redacted]	100-51-6	BENZYL ALCOHOL	200. U
25B	95-50-1	1,2-DICHLOROBENZENE	200. U
2H	95-48-7	2-METHYLPHENOL	200. U
42B	39638-32-9	BIS (2-CHLOROISOPROPYL) ETHER	200. U
3H	106-44-5	4-METHYLPHENOL	200. U
63B	621-64-7	N-NITROSO-DI-N-PROPLYAMINE	200. U
12B	67-72-1	HEXACHLOROETHANE	200. U
56B	98-95-3	NITROBENZENE	200. U
54B	78-59-1	ISOPHORONE	200. U
57A	88-75-5	2-NITROPHENOL	200. U
34A	105-67-9	2,4-DIMETHYLPHENOL	200. U
1H	65-85-0	BENZOIC ACID	1000. U
43B	111-91-1	BIS (2-CHLOROETHOXY) METHANE	200. U
31A	120-33-2	2,4-DICHLOROPHENOL	200. U
8B	120-82-1	1,2,4-TRICHLOROBENZENE	200. U
55B	91-20-3	NAPHTHALENE	200. U
7H	106-47-8	4-CHLOROANILINE	200. U
52B	87-68-3	HEXACHLOROBUTADIENE	200. U
22A	59-50-7	4-CHLORO-3-METHYLPHENOL	200. U
9H	91-57-6	2-METHYLNAPHTHALENE	200. U
53B	77-47-4	HEXACHLOROCYCLOPENTADIENE	200. U
21A	88-06-2	2,4,6-TRICHLOROPHENOL	200. U
4H	95-95-4	2,4,5-TRICHLOROPHENOL	1000. U
20B	91-58-7	2-CHLORONAPHTHALENE	200. U
1[redacted]	88-74-4	2-NITROANILINE	1000. U
[redacted]	131-11-3	DIMETHYLPHTHALATE	200. U
77B	208-96-8	ACENAPHTHALENE	200. U
11H	99-09-2	3-NITROANILINE	1000. U
1B	83-32-9	ACENAPHTHENE	200. U
59A	51-28-5	2,4-DINITROPHENOL	1000. U

AR100264

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB832

LABORATORY: IT/CERR
LABORATORY ID: 34887B15
MATRIX: SOIL

CASE #/SAS #: 5110
QC REPORT #: 6962-239
CONTRACT #: 68-01-6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY:

SEMIVOLATILE COMPOUNDS (PAGE 2)

LEVEL:	LOW	GPC	Y_ N X
DATE EXT/PREP:	11/08/85	SEP. FUNNEL	Y_ N X
DATE ANALYZED:	11/24/85	CONT. EXT.	Y_ N X
SPL--EXTRACT:	50.00G: 1ML		
PH:	9.4		
% MOISTURE (NOT DEC.):	24.16		
% MOISTURE (DEC.):	Not Analyzed		
STANDARD ID:	BNA782		
SENSITIVITY ID:	FSS516		
UNITS:	UG/KG		

PP #	CAS #		CONC
58A	100-02-7	4-NITROPHENOL	1000. U
8H	132-64-9	DIBENZOFURAN	200. U
35B	121-14-2	2,4-DINITROTOLUENE	200. U
36B	606-20-2	2,6-DINITROTOLUENE	200. U
70B	84-66-2	DIETHYLPHTHALATE	200. U
40B	7005-72-3	4-CHLOROPHENYLPHENYL ETHER	200. U
80B	86-73-7	FLUORENE	200. U
12H	100-01-6	4-NITROANILINE	1000. U
60A	534-52-1	4,6-DINITRO-O-CRESOL	1000. U
62B	86-30-6	N-NITROSODIPHENYLAMINE	200. U
41B	101-55-3	4-BROMOPHENOXYBENZENE	200. U
9B	118-74-1	HEXACHLOROBENZENE	200. U
64A	87-86-5	PENTACHLOROPHENOL	1000. U
81B	85-01-8	PHENANTHRENE	200. U
78B	120-12-7	ANTHRACENE	200. U
68B	84-74-2	DI-N-BUTYLPHTHALATE	200. U
39B	206-44-0	FLUORANTHENE	130. J
84B	129-00-0	PYRENE	110. J
67B	85-68-7	BUTYLBENZYLPHTHALATE	200. U
28B	91-94-1	3,3'-DICHLOROBENZIDINE	400. U
72B	56-55-3	BENZO (A) ANTHRACENE	200. U
66B	117-81-7	BIS (2-ETHYLHEXYL) PHTHALATE	65. J
76B	218-01-9	CHRYSENE	88. J
69B	117-84-0	DI-N-OCTYLPHTHALATE	200. U
74B	205-99-2	BENZO (B & K) FLUORANTHENE	180. J
73B	50-32-8	BENZO (A) PYRENE	200. U
83B	193-39-5	INDENO-1,2,3 (C,D) PYRENE	200. U
82B	53-70-3	DIBENZO (A,H) ANTHRACENE	200. U
79B	191-24-2	BENZO (G,H,I) PERYLENE	200. U

ALL RESULTS ARE REPORTED ON A WET WEIGHT BASIS.

AR100265

Sample #: CB 832 (Hg)

Laboratory: IT/Cerritos
Lab ID: 2317-19
Lab ID for Dil: —
Sample Matrix: Soil
Data Release Authorized by: JJ

Case #/SAS #: 5110
QC Report #: 6962-239
Contract #: 68-01-6962
Date Rec'd: 10-31-85

Organics Analysis Data Sheet
Pesticide/PCB's

Sample Level: low
Date Extracted: 11-8-85
Date Analyzed: 11-20-85
Spl->Extract: 50.05g->10ml; 5ml->10ml
For Dilution: —
pH: 9.4
% Moisture: 24.16
% Moisture (Decanted): Not Analyzed
Lab Std ID: 2317-4,5,14,15

ALL RESULTS ARE REPORTED ON WET WEIGHT BASIS.

Column Type: 3% OV-1
Column #: 405
Inst. ID: 63

Circle Units: (ug/Kg) ug/L

319-84-6	alpha-BHC	2U
319-85-7	beta-BHC	
319-86-8	delta-BHC	
58-89-9	gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	4U
72-55-9	4,4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4,4'-DDD	
1031-07-8	Endosulfan Sulfate	
50-29-3	4,4'-DDT	
72-43-5	Methoxychlor	20U
53494-70-5	Endrin Ketone	4U
57-74-9	Chlordane	20U
8001-35-2	Toxaphene	40U
12674-11-2	Arochlor-1016	20U
11104-28-2	Arochlor-1221	
11141-16-5	Arochlor-1232	
53469-21-9	Arochlor-1242	
12672-29-6	Arochlor-1248	71**
11097-69-1	Arochlor-1254	170**
11096-82-5	Arochlor-1260	40U

U - Analyzed for but not detected (Reported Value is Detection Limit-DL)
J - Estimated Value (0 < Value < DL)
C - Confirmed by GC/MS-GC Quantitation
B - Compound found in Blank. Sample results are not Blank Corrected.
** - Detected below GC/MS DL-GC Quantitation
N - Not Confirmed by GC/MS-GC/MS DL
NA - Not Analyzed
NR - Not Reported

V_i = Volume of extract injected (ul)
V_s = Volume of water extracted (ml)
W_s = Weight of sample extracted (g)
V_t = Volume of total extract (ul)

V_s — ml or
W_s 50.05 g
V_t 20,000 ul
V_i 5 ul

Surrogate Spike Recoveries — Circle Units: (ug/Kg) ug/L

Lab ID	Fraction	Compound	Conc. Sample	Conc. Spiked	% Recovery
2317-19	Pest.	Dibutyl Chlorendate	27	40AR	00685

* - Asterisked Values are outside QC Limits. NS - Not Spiked
\# - _____ Recoveries due to Dilution.
$ - _____ Recoveries due to Matrix Effects.

Rev 8/85

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB843

[redacted]ATORY:	IT/CERR	CASE #/SAS #:	5110
[redacted]ATORY ID:	34886N3	QC REPORT #:	6962-231
MATRIX:	WATER	CONTRACT #:	6962
		DATE RECEIVED:	10/31/85

DATA RELEASE AUTHORIZED BY: Cheryl Ustine

VOLATILE COMPOUNDS

LEVEL:	LOW
DATE EXT/PREP:	11/07/85
DATE ANALYZED:	11/07/85
SPL-->EXTRACT:	5ML
PH:	Not Analyzed
% MOISTURE (NOT DEC.):	Not Analyzed
% MOISTURE (DEC.):	Not Analyzed
STANDARD ID:	VOA510
SENSITIVITY ID:	BFD454
UNITS:	UG/L

CP #	CAS #		CONC
5V	74-87-3	CHLOROMETHANE	10. U
6V	74-83-9	BROMOMETHANE	10. U
8V	75-01-4	VINYL CHLORIDE	10. U
6	75-00-3	CHLOROETHANE	10. U
4	75-09-2	METHYLENE CHLORIDE	17. B
3H	67-64-1	ACETONE	10. U
5H	75-15-0	CARBON DISULFIDE	5. U
9V	75-35-4	1,1-DICHLOROETHENE	5. U
3V	75-34-3	1,1-DICHLOROETHANE	2. J
0V	156-60-5	TRANS-1,2-DICHLOROETHENE	5. U
3V	67-66-3	CHLOROFORM	5. U
0V	107-06-2	1,2-DICHLOROETHANE	5. U
4H	78-93-3	2-BUTANONE	10. U
1V	71-55-6	1,1,1-TRICHLOROETHANE	5. U
6V	56-23-5	CARBON TETRACHLORIDE	5. U
9H	108-05-4	VINYL ACETATE	10. U
8V	75-27-4	BROMODICHLOROMETHANE	5. U
2V	78-87-5	1,2-DICHLOROPROPANE	5. U
3VT	10061-02-6	TRANS-1,3-DICHLOROPROPENE	5. U
7V	79-01-6	TRICHLOROETHENE	5. U
1V	124-48-1	CHLORODIBROMOMETHANE	5. U
4V	79-00-5	1,1,2-TRICHLOROETHANE	5. U
4V	71-43-2	BENZENE	5. U
3VC	10061-01-5	CIS-1,3-DICHLOROPROPENE	5. U
9V	110-75-8	2-CHLOROETHYLVINYL ETHER	10. U
7V	75-25-2	BROMOFORM	5. U
6H	519-78-6	2-HEXANONE	10. U
7H	108-10-1	4-METHYL-2-PENTANONE	10. U
5	127-18-4	TETRACHLOROETHENE	5. U
5	79-34-5	1,1,2,2-TETRACHLOROETHANE	5. U
6V	108-88-3	TOLUENE	5. U
7V	108-90-7	CHLOROBENZENE	5. U
8V	100-41-4	ETHYLBENZENE	5. U
8H	100-42-5	STYRENE	5. U
0H	95-47-6	TOTAL XYLENES	5. U

AR100267

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB843

LABORATORY: IT/CERR
LABORATORY ID: 34586B9
MATRIX: WATER

CASE #/SAS #: 5110
QC REPORT #: 6962-231
CONTRACT #: 68-01-6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY: Chuylusuhl

SEMIVOLATILE COMPOUNDS (PAGE 1)

LEVEL:	LOW	GPC	Y_ N✓
DATE EXT/PREP:	11/03/85	SEP. FUNNEL	Y_ N✓
DATE ANALYZED:	11/21/85	CONT. EXT.	Y✓ N_
SPL-->EXTRACT:	1L:2ML::250UL:1ML		
PH:	Not Analyzed		
% MOISTURE (NOT DEC.):	Not Analyzed		
% MOISTURE (DEC.):	Not Analyzed		
STANDARD ID:	BNA772		
SENSITIVITY ID:	FSS513		
UNITS:	UG/L		

PP #	CAS #		CONC
65A	108-95-2	PHENOL	80. U
18B	111-44-4	BIS (2-CHLOROETHYL) ETHER	80. U
24A	95-57-8	2-CHLOROPHENOL	80. U
26B	541-73-1	1,3-DICHLOROBENZENE	80. U
27B	106-46-7	1,4-DICHLOROBENZENE	80. U
6H	100-51-6	BENZYL ALCOHOL	80. U
25B	95-50-1	1,2-DICHLOROBENZENE	80. U
2H	95-48-7	2-METHYLPHENOL	80. U
42B	39638-32-9	BIS (2-CHLOROISOPROPYL) ETHER	80. U
3H	106-44-5	4-METHYLPHENOL	80. U
63B	621-64-7	N-NITROSO-DI-N-PROPLYAMINE	80. U
12B	67-72-1	HEXACHLOROETHANE	80. U
56B	98-95-3	NITROBENZENE	80. U
54B	78-59-1	ISOPHORONE	80. U
57A	88-75-5	2-NITROPHENOL	80. U
34A	105-67-9	2,4-DIMETHYLPHENOL	80. U
1H	65-85-0	BENZOIC ACID	400. U
43B	111-91-1	BIS (2-CHLOROETHOXY) METHANE	80. U
31A	120-33-2	2,4-DICHLOROPHENOL	80. U
8B	120-82-1	1,2,4-TRICHLOROBENZENE	80. U
55B	91-20-3	NAPHTHALENE	80. U
7H	106-47-8	4-CHLOROANILINE	80. U
52B	87-68-3	HEXACHLOROBUTADIENE	80. U
22A	59-50-7	4-CHLORO-3-METHYLPHENOL	80. U
9H	91-57-6	2-METHYLNAPHTHALENE	80. U
53B	77-47-4	HEXACHLOROCYCLOPENTADIENE	80. U
21A	88-06-2	2,4,6-TRICHLOROPHENOL	80. U
4H	95-95-4	2,4,5-TRICHLOROPHENOL	400. U
20B	91-58-7	2-CHLORONAPHTHALENE	80. U
10H	88-74-4	2-NITROANILINE	400. U
71B	131-11-3	DIMETHYLPHTHALATE	80. U
77B	208-96-8	ACENAPHTHALENE	80. U
11H	99-09-2	3-NITROANILINE	400. U
1B	83-32-9	ACENAPHTHENE	80. U
59A	51-28-5	2,4-DINITROPHENOL	400. U

AR 100268

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB843

LABORATORY: IT/CERR
LABORATORY ID: 3498689
MATRIX: WATER
CASE #/SAS #: 5110
QC REPORT #: 6962-231
CONTRACT #: 68-01-6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY: Cheryl Sabel

SEMIVOLATILE COMPOUNDS (PAGE 2)

LEVEL:	LOW	GPC	Y_	N✓
DATE EXT/PREP:	11/03/85	SEP. FUNNEL	Y_	N✓
DATE ANALYZED:	11/21/85	CONT. EXT.	Y✓	N_
SPL--EXTRACT:	1L: 2ML: : 250UL: 1ML			
PH:	Not Analyzed			
% MOISTURE (NOT DEC.):	Not Analyzed			
% MOISTURE (DEC.):	Not Analyzed			
STANDARD ID:	BNA772			
SENSITIVITY ID:	FSS513			
UNITS:	UG/L			

PP #	CAS #		CONC
58A	100-02-7	4-NITROPHENOL	400. U
8H	132-64-9	DIBENZOFURAN	80. U
35B	121-14-2	2,4-DINITROTOLUENE	80. U
36B	606-20-2	2,6-DINITROTOLUENE	80. U
7[redacted]	84-66-2	DIETHYLPHTHALATE	80. U
4[redacted]	7005-72-3	4-CHLOROPHENYLPHENYL ETHER	80. U
80B	86-73-7	FLUORENE	80. U
12H	100-01-6	4-NITROANILINE	400. U
60A	534-52-1	4,6-DINITRO-O-CRESOL	400. U
62B	86-30-6	N-NITROSODIPHENYLAMINE	80. U
41B	101-55-3	4-BROMOPHENOXYBENZENE	80. U
9B	118-74-1	HEXACHLOROBENZENE	80. U
64A	87-86-5	PENTACHLOROPHENOL	400. U
81B	85-01-8	PHENANTHRENE	80. U
78B	120-12-7	ANTHRACENE	80. U
68B	84-74-2	DI-N-BUTYLPHTHALATE	80. U
39B	206-44-0	FLUORANTHENE	80. U
84B	129-00-0	PYRENE	80. U
67B	85-68-7	BUTYLBENZYLPHTHALATE	80. U
28B	91-94-1	3,3'-DICHLOROBENZIDINE	200. U
72B	56-55-3	BENZO (A) ANTHRACENE	80. U
66B	117-81-7	BIS (2-ETHYLHEXYL) PHTHALATE	80. U
76B	218-01-9	CHRYSENE	80. U
69B	117-84-0	DI-N-OCTYLPHTHALATE	80. U
74B	205-99-2	BENZO (B & K) FLUORANTHENE	80. U
73B	50-32-8	BENZO (A) PYRENE	80. U
83B	193-39-5	INDENO-1,2,3 (C,D) PYRENE	80. U
82B	53-70-3	DIBENZO (A,H) ANTHRACENE	80. U
79B	191-24-2	BENZO (G,H,I) PERYLENE	80. U

[redacted] RESULTS ARE REPORTED ON A WET WEIGHT BASIS.

AR100269

Sample #: CB873

Laboratory: IT/Cerritos
Lab ID: 314-20
Lab ID for Dil:
Sample Matrix: Water
Data Release Authorized by: TAR/TAR

Case #/SAS #: 5110
QC Report #: 6962-231
Contract #: 68-01-6962
Date Rec'd: 10-31-85

Organics Analysis Data Sheet
Pesticide/PCB's

Sample Level: Low
Date Extracted: 11-1-85
Date Analyzed: 11-16-85
Spl->Extract: 1l → 10ml; 5ml → 5ml
For Dilution:
pH: Not Analyzed
% Moisture: Not Analyzed
% Moisture (Decanted): Not Analyzed
Lab Std ID: 314-455

ALL RESULTS ARE REPORTED ON WET WEIGHT BASIS.

Circle Units: ug/Kg, (ug/L)

319-84-6	alpha-BHC	0.054
319-85-7	beta-BHC	
319-86-8	delta-BHC	
58-89-9	gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	0.1
72-55-9	4,4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4,4'-DDD	
1031-07-8	Endosulfan Sulfate	
50-29-3	4,4'-DDT	
72-43-5	Methoxychlor	0.5
53494-70-5	Endrin Ketone	0.1
57-74-9	Chlordane	0.5
8001-35-2	Toxaphene	1
12674-11-2	Arochlor-1016	0.5
11104-28-2	Arochlor-1221	
11141-16-5	Arochlor-1232	
53469-21-9	Arochlor-1242	
12672-29-6	Arochlor-1248	
11097-69-1	Arochlor-1254	1
11096-82-5	Arochlor-1260	

U - Analyzed for but not detected (Reported Value is Detection Limit-DL)
J - Estimated Value (0 < Value < DL)
C - Confirmed by GC/MS-GC Quantitation
B - Compound found in Blank. Sample results are not Blank Corrected.
** - Detected below GC/MS DL-GC Quantitation
N - Not Confirmed by GC/MS-GC/MS DL
NA - Not Analyzed
NR - Not Reported

V_i = Volume of extract injected (ul)
V_s = Volume of water extracted (ml)
W_s = Weight of sample extracted (g)
V_t = Volume of total extract (ul)

V_s 1000 ml or
W_s — g
V_t 10,000 ul
V_i 5 ul

Surrogate Spike Recoveries

Circle Units: ug/Kg, (ug/L)

Lab ID	Fraction	Compound	Conc. Sample	Conc. Spiked	% Recovery
314-20	Pest.	Dibutyl Chlorendate	0.41	1.0	41

* - Asterisked Values are outside QC Limits.
NS - Not Spiked
\# - _____ Recoveries due to Dilution.
$ - _____ Recoveries due to Matrix Effects.

Rev 8/85

AR100270

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB843

LABORATORY: IT/CERR
LABORATORY ID: 34886N3
MATRIX: WATER

CASE #/SAS #: 5110
QC REPORT #: 6962-231
CONTRACT #: 6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY: Cheryl Swink

VOLATILE COMPOUNDS

SURROGATE SPIKE RECOVERIES

LEVEL:	LOW
DATE EXT/PREP:	11/07/85
DATE ANALYZED:	11/07/85
SPL-->EXTRACT:	5ML
PH:	Not Analyzed
% MOISTURE (NOT DEC.):	Not Analyzed
% MOISTURE (DEC.):	Not Analyzed
STANDARD ID:	VOA510
SENSITIVITY ID:	BFD454
UNITS:	UG/L

LAB ID	COMPOUND	SAMPLE	SPIKED	% RECOVERY
	TOLUENE-D8	50.	50.	100
34886N3	4-BROMOFLUOROBENZENE	50.	50.	100
	1,2-DICHLOROETHANE-D4	51.	50.	102

* - ASTERISKED VALUES ARE OUTSIDE QC LIMITS NS - NOT SPIKED
# - _____ RECOVERIES DUE TO DILUTION
& - _____ RECOVERIES DUE TO MATRIX EFFECTS

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	SCAN #	CONC(J)
1		NONE FOUND		
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
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19				
20				
21				
22				

AR100271

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB844

LABORATORY: IT/CERR
LABORATORY ID: 34886N8
MATRIX: WATER

CASE #/SAS #: 5110
QC REPORT #: 6962-231
CONTRACT #: 6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY: Cheryl Wahl

VOLATILE COMPOUNDS

LEVEL:	LOW
DATE EXT/PREP:	11/07/85
DATE ANALYZED:	11/07/85
SPL-->EXTRACT:	5ML
PH:	Not Analyzed
% MOISTURE (NOT DEC.):	Not Analyzed
% MOISTURE (DEC.):	Not Analyzed
STANDARD ID:	VOA510
SENSITIVITY ID:	BFD454
UNITS:	UG/L

PP #	CAS #		CONC	
15V	74-87-3	CHLOROMETHANE	10.	U
16V	74-83-9	BROMOMETHANE	10.	U
88V	75-01-4	VINYL CHLORIDE	10.	U
.6V	75-00-3	CHLOROETHANE	10.	U
14V	75-09-2	METHYLENE CHLORIDE	19.	B
13H	67-64-1	ACETONE	10.	U
15H	75-15-0	CARBON DISULFIDE	5.	U
19V	75-35-4	1,1-DICHLOROETHENE	5.	U
23V	75-34-3	1,1-DICHLOROETHANE	5.	U
30V	156-60-5	TRANS-1,2-DICHLOROETHENE	5.	U
33V	67-66-3	CHLOROFORM	5.	U
.0V	107-06-2	1,2-DICHLOROETHANE	5.	U
14H	78-93-3	2-BUTANONE	10.	U
11V	71-55-6	1,1,1-TRICHLOROETHANE	5.	U
6V	56-23-5	CARBON TETRACHLORIDE	5.	U
19H	108-05-4	VINYL ACETATE	10.	U
48V	75-27-4	BROMODICHLOROMETHANE	5.	U
32V	78-87-5	1,2-DICHLOROPROPANE	5.	U
33VT	10061-02-6	TRANS-1,3-DICHLOROPROPENE	5.	U
87V	79-01-6	TRICHLOROETHENE	5.	U
51V	124-48-1	CHLORODIBROMOMETHANE	5.	U
4V	79-00-5	1,1,2-TRICHLOROETHANE	5.	U
4V	71-43-2	BENZENE	5.	U
33VC	10061-01-5	CIS-1,3-DICHLOROPROPENE	5.	U
9V	110-75-8	2-CHLOROETHYLVINYL ETHER	10.	U
47V	75-25-2	BROMOFORM	5.	U
16H	519-78-6	2-HEXANONE	10.	U
7H	108-10-1	4-METHYL-2-PENTANONE	10.	U
35V	127-18-4	TETRACHLOROETHENE	5.	U
15V	79-34-5	1,1,2,2-TETRACHLOROETHANE	5.	U
36V	108-88-3	TOLUENE	5.	U
7V	108-90-7	CHLOROBENZENE	5.	U
38V	100-41-4	ETHYLBENZENE	5.	U
18H	100-42-5	STYRENE	5.	U
20H	95-47-6	TOTAL XYLENES	5.	U

AR100272

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB843

LABORATORY: IT/CERR
LABORATORY ID: 3488689
MATRIX: WATER

CASE #/SAS #: 5110
QC REPORT #: 6962-231
CONTRACT #: 68-01-6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY: Cheryl Wesnik

SEMIVOLATILE COMPOUNDS
SURROGATE SPIKE RECOVERIES

LEVEL:	LOW	GPC	Y_ N✓
DATE EXT./PREP:	11/03/85	SEP. FUNNEL	Y_ N✓
DATE ANALYZED:	11/21/85	CONT. EXT.	Y✓ N_
SPL--EXTRACT:	1L:2ML::250UL:1ML		
PH:	Not Analyzed		
% MOISTURE (NOT DEC.):	Not Analyzed		
% MOISTURE (DEC.):	Not Analyzed		
STANDARD ID:	BNA772		
SENSITIVITY ID:	FSS513		
UNITS:	UG/L		

LAB ID	COMPOUND	SAMPLE	SPIKED	% RECOVERY
	NITROBENZENE-D5	59. J	102.	58
	2-FLUOROBIPHENYL	101.	103.	98
3488689	P-TERPHENYL-D14	44. J	103.	43
	PHENOL-D5	79. J	206.	38
	2-FLUOROPHENOL	85.	203.	42
	2,4,6-TRIBROMOPHENOL	110.	205.	54

* - ASTERISKED VALUES ARE OUTSIDE QC LIMITS NS - NOT SPIKED
\# - _____ RECOVERIES DUE TO DILUTION
$ - _____ RECOVERIES DUE TO MATRIX EFFECTS

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	SCAN #	CONC(J)
1	-	Hydrocarbon	592	50
2	-	Hydrocarbon	625	30
3	57-10-3	Hexadecanoic Acid	1362	70
4	-	Unknown	1470	100
5				
6				
7				
8				
9				
10				
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17				
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19				
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21				
22				

MR100273

DATA REPORTING QUALIFIERS

VALUE	IF THE RESULT IS A VALUE GREATER THAN OR EQUAL TO THE DETECTION LIMIT REPORT THE VALUE.
U	INDICATES COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM ATTAINABLE DETECTION LIMIT FOR THE SAMPLE.
J	INDICATES AN ESTIMATED VALUE. THIS FLAG IS USED EITHER WHEN ESTIMATING A CONCENTRATION FOR TENTATIVELY IDENTIFIED COMPOUNDS WHERE A 1:1 RESPONSE IS ASSUMED OR WHEN THE MASS SPECTRAL DATA INDICATES THE PRESENCE OF A COMPOUND THAT MEETS THE IDENTIFICATION CRITERIA BUT THE RESULT IS LESS THAN THE SPECIFIED DETECTION LIMIT BUT GREATER THAN ZERO.
C	THIS FLAG APPLIES TO PESTICIDE PARAMETERS WHERE THE IDENTIFICATION HAS BEEN CONFIRMED BY GCMS. SINGLE COMPONENT PESTICIDES GREATER THAN OR EQUAL TO 10NG/UL IN THE FINAL EXTRACT SHOULD BE CONFIRMED BY GCMS.
B	THIS FLAG IS USED WHEN THE ANALYTE IS FOUND IN THE BLANK AS WELL AS IN THE SAMPLE. IT INDICATES POSSIBLE/PROBABLE BLANK COMTAMINATION AND WARNS THE DATA USER TO TAKE APPROPRIATE ACTION.

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB844

LABORATORY: IT/CERR
LABORATORY ID: 34886810
MATRIX: WATER

CASE #/SAS #: 5110
QC REPORT #: 6962-231
CONTRACT #: 68-01-6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY:

SEMIVOLATILE COMPOUNDS (PAGE 1)

LEVEL:	LOW	GPC	Y_ N✓
DATE EXT/PREP:	11/03/85	SEP. FUNNEL	Y_ N✓
DATE ANALYZED:	11/21/86	CONT. EXT.	Y✓ N_
SPL--EXTRACT:	1L:2ML		
PH:	Not Analyzed		
% MOISTURE (NOT DEC.):	Not Analyzed		
% MOISTURE (DEC.):	Not Analyzed		
STANDARD ID:	BNA772		
SENSITIVITY ID:	FSS513		
UNITS:	UG/L		

PP #	CAS #		CONC
65A	108-95-2	PHENOL	20. U
18B	111-44-4	BIS (2-CHLOROETHYL) ETHER	20. U
24A	95-57-8	2-CHLOROPHENOL	20. U
26B	541-73-1	1,3-DICHLOROBENZENE	20. U
[redacted]	106-46-7	1,4-DICHLOROBENZENE	20. U
	100-51-6	BENZYL ALCOHOL	20. U
25B	95-50-1	1,2-DICHLOROBENZENE	20. U
2H	95-48-7	2-METHYLPHENOL	20. U
42B	39638-32-9	BIS (2-CHLOROISOPROPYL) ETHER	20. U
3H	106-44-5	4-METHYLPHENOL	20. U
63B	621-64-7	N-NITROSO-DI-N-PROPLYAMINE	20. U
12B	67-72-1	HEXACHLOROETHANE	20. U
56B	98-95-3	NITROBENZENE	20. U
54B	78-59-1	ISOPHORONE	20. U
57A	88-75-5	2-NITROPHENOL	20. U
34A	105-67-9	2,4-DIMETHYLPHENOL	20. U
1H	65-85-0	BENZOIC ACID	100. U
43B	111-91-1	BIS (2-CHLOROETHOXY) METHANE	20. U
31A	120-33-2	2,4-DICHLOROPHENOL	20. U
8B	120-82-1	1,2,4-TRICHLOROBENZENE	20. U
55B	91-20-3	NAPHTHALENE	20. U
7H	106-47-8	4-CHLOROANILINE	20. U
52B	87-68-3	HEXACHLOROBUTADIENE	20. U
22A	59-50-7	4-CHLORO-3-METHYLPHENOL	20. U
9H	91-57-6	2-METHYLNAPHTHALENE	20. U
53B	77-47-4	HEXACHLOROCYCLOPENTADIENE	20. U
21A	88-06-2	2,4,6-TRICHLOROPHENOL	20. U
4H	95-95-4	2,4,5-TRICHLOROPHENOL	100. U
20B	91-58-7	2-CHLORONAPHTHALENE	20. U
[redacted]	88-74-4	2-NITROANILINE	100. U
	131-11-3	DIMETHYLPHTHALATE	20. U
77B	208-96-8	ACENAPHTHALENE	20. U
11H	99-09-2	3-NITROANILINE	100. U
1B	83-32-9	ACENAPHTHENE	20. U
59A	51-28-5	2,4-DINITROPHENOL	100. U

AR100275

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB844

LABORATORY: IT/CERR
LABORATORY ID: 34886B10
MATRIX: WATER
CASE #/SAS #: 5110
GC REPORT #: 6962-231
CONTRACT #: 68-01-6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY: Cheryl Suhl

SEMIVOLATILE COMPOUNDS (PAGE 2)

LEVEL:	LOW	GPC	Y_ N✓
DATE EXT/PREP:	11/03/85	SEP. FUNNEL	Y_ N✓
DATE ANALYZED:	11/21/86	CONT. EXT.	Y✓ N_
SPL-->EXTRACT:	1L:2ML		
PH:	Not Analyzed		
% MOISTURE (NOT DEC.):	Not Analyzed		
% MOISTURE (DEC.):	Not Analyzed		
STANDARD ID:	BNA772		
SENSITIVITY ID:	FSS513		
UNITS:	UG/L		

PP #	CAS #		CONC
58A	100-02-7	4-NITROPHENOL	100. U
6H	132-64-9	DIBENZOFURAN	20. U
35B	121-14-2	2,4-DINITROTOLUENE	20. U
36B	606-20-2	2,6-DINITROTOLUENE	20. U
70B	84-66-2	DIETHYLPHTHALATE	20. U
40B	7005-72-3	4-CHLOROPHENYLPHENYL ETHER	20. U
80B	86-73-7	FLUORENE	20. U
12H	100-01-6	4-NITROANILINE	100. U
60A	534-52-1	4,6-DINITRO-O-CRESOL	100. U
62B	86-30-6	N-NITROSODIPHENYLAMINE	20. U
41B	101-55-3	4-BROMOPHENOXYBENZENE	20. U
9B	118-74-1	HEXACHLOROBENZENE	20. U
64A	87-86-5	PENTACHLOROPHENOL	100. U
81B	85-01-8	PHENANTHRENE	20. U
78B	120-12-7	ANTHRACENE	20. U
68B	84-74-2	DI-N-BUTYLPHTHALATE	20. U
39B	206-44-0	FLUORANTHENE	20. U
84B	129-00-0	PYRENE	20. U
67B	85-68-7	BUTYLBENZYLPHTHALATE	20. U
28B	91-94-1	3,3'-DICHLOROBENZIDINE	40. U
72B	56-55-3	BENZO (A) ANTHRACENE	20. U
66B	117-81-7	BIS (2-ETHYLHEXYL) PHTHALATE	20. U
76B	218-01-9	CHRYSENE	20. U
69B	117-84-0	DI-N-OCTYLPHTHALATE	20. U
74B	205-99-2	BENZO (B & K) FLUORANTHENE	20. U
73B	50-32-8	BENZO (A) PYRENE	20. U
83B	193-39-5	INDENO-1,2,3 (C,D) PYRENE	20. U
82B	53-70-3	DIBENZO (A,H) ANTHRACENE	20. U
79B	191-24-2	BENZO (G,H,I) PERYLENE	20. U

ALL RESULTS ARE REPORTED ON A WET WEIGHT BASIS.

Sample #: CB844

Laboratory: IT/Cerritos
Lab ID: 314-24
Lab ID for Dil:
Sample Matrix: Water
Data Release Authorized by: TAR/TAR amendment

Case #/SAS #: 5110
QC Report #: 6962-231
Contract #: 68-01-6962
Date Rec'd: 10-31-85

Organics Analysis Data Sheet
Pesticide/PCB's

Sample Level: Low
Date Extracted: 11-1-85
Date Analyzed: 11-16-85
Spl->Extract: 1L → 10ml; 5ml → 5ml
For Dilution:
pH: Not Analyzed
% Moisture: Not Analyzed
% Moisture (Decanted): Not Analyzed
Lab Std ID: 314-STD

ALL RESULTS ARE REPORTED ON WET WEIGHT BASIS.

Circle Units: ug/Kg, (ug/L)

319-84-6	alpha-BHC	0.054
319-85-7	beta-BHC	
319-86-8	delta-BHC	
58-89-9	gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	0.14
72-55-9	4,4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4,4'-DDD	
1031-07-8	Endosulfan Sulfate	
50-29-3	4,4'-DDT	
72-43-5	Methoxychlor	0.5U
53494-70-5	Endrin Ketone	0.1U
57-74-9	Chlordane	0.5U
8001-35-2	Toxaphene	1U
12674-11-2	Arochlor-1016	0.5U
11104-28-2	Arochlor-1221	
11141-16-5	Arochlor-1232	
53469-21-9	Arochlor-1242	
12672-29-6	Arochlor-1248	
11097-69-1	Arochlor-1254	1U
11096-82-5	Arochlor-1260	

U - Analyzed for but not detected (Reported Value is Detection Limit-DL)
J - Estimated Value (0 < Value < DL)
C - Confirmed by GC/MS-GC Quantitation
B - Compound found in Blank. Sample results are not Blank Corrected.
** - Detected below GC/MS DL-GC Quantitation
N - Not Confirmed by GC/MS-GC/MS DL
NA - Not Analyzed
NR - Not Reported

V_i = Volume of extract injected (ul)
V_s = Volume of water extracted (ml)
W_s = Weight of sample extracted (g)
V_t = Volume of total extract (ul)

V_s 1000 ml or
W_s — g
V_t 10,000 ul
V_i 1 ul

Surrogate Spike Recoveries

Circle Units: ug/Kg, (ug/L)

Lab ID	Fraction	Compound	Conc. Sample	Conc. Spiked	% Recovery
314-24	Pest.	Dibutyl Chlorendate	0.56	1.0	56

* - Asterisked Values are outside QC Limits.
NS - Not Spiked
- _____ Recoveries due to Dilution.
$ - _____ Recoveries due to Matrix Effects.

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ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB844

LABORATORY: IT/CERR
LABORATORY ID: 34886N8
MATRIX: WATER

CASE #/SAS #: 5110
QC REPORT #: 6962-231
CONTRACT #: 6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY: Cheryl Wehrli

VOLATILE COMPOUNDS

SURROGATE SPIKE RECOVERIES

LEVEL:	LOW
DATE EXT/PREP:	11/07/85
DATE ANALYZED:	11/07/85
SPL-->EXTRACT:	5ML
PH:	Not Analyzed
% MOISTURE (NOT DEC.):	Not Analyzed
% MOISTURE (DEC.):	Not Analyzed
STANDARD ID:	VOA510
SENSITIVITY ID:	BFD454
UNITS:	UG/L

LAB ID	COMPOUND	SAMPLE	SPIKED	% RECOVERY
	TOLUENE-D8	51.	50.	102
34886N8	4-BROMOFLUOROBENZENE	51.	50.	102
	1,2-DICHLOROETHANE-D4	52.	50.	104

* - ASTERISKED VALUES ARE OUTSIDE QC LIMITS NS - NOT SPIKED
# - _____ RECOVERIES DUE TO DILUTION
& - _____ RECOVERIES DUE TO MATRIX EFFECTS

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	SCAN #	CONC(J)
1		NONE FOUND		
2				
3				
4				
5				
6				
7				
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19				
20				
21				
22				

VR100278

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB844

LABORATORY: IT/CERR
LABORATORY ID: 34886B10
MATRIX: WATER

CASE #/SAS #: 5110
QC REPORT #: 6962-231
CONTRACT #: 68-01-6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY: Cheryl Sibert

SEMIVOLATILE COMPOUNDS
SURROGATE SPIKE RECOVERIES

LEVEL:	LOW	GPC	Y_	N✓
DATE EXT./PREP:	11/03/85	SEP. FUNNEL	Y_	N✓
DATE ANALYZED:	11/21/86	CONT. EXT.	Y✓	N_
SPL-->EXTRACT:	1L:2ML			
PH:	Not Analyzed			
% MOISTURE (NOT DEC.):	Not Analyzed			
% MOISTURE (DEC.):	Not Analyzed			
STANDARD ID:	BNA772			
SENSITIVITY ID:	FSS513			
UNITS:	UG/L			

LAB ID	COMPOUND	SAMPLE	SPIKED	% RECOVERY
	NITROBENZENE-D5	81.	103.	79
	2-FLUOROBIPHENYL	87.	104.	84
34886B10	P-TERPHENYL-D14	42.	104.	40
	PHENOL-D5	87.	207.	42
	2-FLUOROPHENOL	110.	204.	54
	2,4,6-TRIBROMOPHENOL	106.	206.	51

* - ASTERISKED VALUES ARE OUTSIDE QC LIMITS NS - NOT SPIKED
\# - _____ RECOVERIES DUE TO DILUTION
& - _____ RECOVERIES DUE TO MATRIX EFFECTS

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	SCAN #	CONC(J)
1	—	Hydrocarbon	1347	8
2	57-10-3	Hexadecanoic Acid	1360	20
3	—	Hydrocarbon	1469	40
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

AR100279

DATA REPORTING QUALIFIERS

VALUE	IF THE RESULT IS A VALUE GREATER THAN OR EQUAL TO THE DETECTION LIMIT REPORT THE VALUE.
U	INDICATES COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM ATTAINABLE DETECTION LIMIT FOR THE SAMPLE.
J	INDICATES AN ESTIMATED VALUE. THIS FLAG IS USED EITHER WHEN ESTIMATING A CONCENTRATION FOR TENTATIVELY IDENTIFIED COMPOUNDS WHERE A 1:1 RESPONSE IS ASSUMED OR WHEN THE MASS SPECTRAL DATA INDICATES THE PRESENCE OF A COMPOUND THAT MEETS THE IDENTIFICATION CRITERIA BUT THE RESULT IS LESS THAN THE SPECIFIED DETECTION LIMIT BUT GREATER THAN ZERO.
C	THIS FLAG APPLIES TO PESTICIDE PARAMETERS WHERE THE IDENTIFICATION HAS BEEN CONFIRMED BY GCMS. SINGLE COMPONENT PESTICIDES GREATER THAN OR EQUAL TO 10NG/UL IN THE FINAL EXTRACT SHOULD BE CONFIRMED BY GCMS.
B	THIS FLAG IS USED WHEN THE ANALYTE IS FOUND IN THE BLANK AS WELL AS IN THE SAMPLE. IT INDICATES POSSIBLE/PROBABLE BLANK COMTAMINATION AND WARNS THE DATA USER TO TAKE APPROPRIATE ACTION.

QUALITY CONTROL REPOR.
MATRIX SPIKE (MS AND MSD)
% RECOVERY AND RPD SUMMARY
LABORATORY: IT/CERR

CASE #/SAS #: 5110 SAMPLE #: CB844
LEVEL: LOW CONTRACT #: 6962
MATRIX: WATER UNITS: UG/L
Q. C. REPORT #: 6962-231

VOLATILE COMPOUNDS

COMPOUND	CONC SPKD (UG/L)	CONC SAMPLE	CONC MS	% REC MS	CONC MSD	% REC MSD	RPD
CHLOROETHYLENE	50.	5. U	53.	105	54.	107	-2
ICHLOROETHYLENE	50.	5. U	50.	100	51.	101	-1
LOROBENZENE	50.	5. U	50.	100	50.	100	0
LUENE	50.	5. U	52.	103	53.	105	-2
NZENE	50.	5. U	51.	101	51.	101	0
LUENE-D8	50.	51.	50.	100	50.	100	0
OMOFLUOROBENZENE	50.	51.	51.	102	51.	102	0
CHLOROETHANE-D4	50.	52.	50.	100	51.	102	-2

- ASTERISKED VALUES ARE OUTSIDE QC LIMITS

PD (MS-MSD)/((MS+MSD)/2)*100

RECOVERY: VOA'S 0 OUT OF 16 OUTSIDE QC LIMITS

RPD: VOA'S 0 OUT OF 8 OUTSIDE QC LIMITS

Summary of Unspiked HSL's

Compound	Conc. Sample	Conc. MS	Conc. MSD	RPD
Methylene Chloride	19 B	21 B	35 B	50

AR100281

RQ-157

SI-3

SAMPLE NUMBER
CC-112

ORGANICS ANALYSIS DATA SHEET

(PAGE 1)

Laboratory Name:NANCO LABORATORY INC.
Lab Sample ID No:>P1434
Sample Matrix: WATER
Data Release Authorized By: George Ode

Case No: 4961
QC Report No: 029
Contract No:68-01-7102
Date Sample Received: 9/20/85

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 9/20/85
Date Analyzed: 9/23/85
Conc/Dil Factor: 1 pH: 5.9
Percent Moisture: N/A
Percent Moisture (Decanted): NA

IS Number		(ug/l) or ug/Kg (Circle One)	CAS Number		(ug/l) or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	30.0 B	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	6.9 JB	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	0.9 J
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
				Total Xylenes	5.0 U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

.UE
the result is a value greater than or equal to the detection
iit, report the value.

lications compound was analyzed for but not detected. Report
: minimum detection limit for the sample with the U(e.g.10U
ied on necessary concentration dilution actions. (This is not
:essarily the instrument detection limit.) The footnote should
id U-Compound was analyzed for but not detected.The number is
: minimum attainable detection limit for the sample.

lications an estimated value.This flag is used either when
:imating a concentration for tentatively identified compounds
ire a 1 1 response is assumed or when the mass spectral data
lications the presence of a compound that meets the identification
iteria but the result is less than the specified detection limit
: greater than zero (e.g. 10J).

C
This flag applies to pesticide parameters where the identificatic
has been confirmed by GC/MS Single component pesticides greater
than or equal to 10 ng/ul in the final extract should be confirme
by GC/MS

B
This flag is used when the analyte is found in the blank as well
as a sample. It indicates possible/probable blank contamination
and warns the data user to take appropriate action.

OTHER
Other specific flags and footnotes may be required to properly
define the results. If used, they must be fully described
and such description attached to the data summary report.

AR100282

AR100282

RQ-158

ORGANIC ANALYSIS DATA SHEET
(PAGE 2)

SI-4

LABORATORY NAME: NANCO LABS. INC.
CASE NO: 4961

SAMPLE NO.
BC-112

SEMIVOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 9/20/85
Date Analyzed: 9/29/85
Conc/Dil Factor: 1

CAS Number		(ug/l) or ug/Kg (Circle One)	CAS Number		(ug/l) or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10.0 U	83-32-9	Acenaphthene	10.0 U
108-95-2	Phenol	10.0 U	51-28-5	2,4-Dinitrophenol	50.0 U
62-53-3	Aniline	10.0 U	100-02-7	4-Nitrophenol	50.0 U
111-44-4	bis(-2-Chloroethyl)Ether	10.0 U	132-64-9	Dibenzofuran	10.0 U
95-57-8	2-Chlorophenol	10.0 U	121-14-2	2,4-Dinitrotoluene	10.0 U
541-73-1	1,3-Dichlorobenzene	10.0 U	606-20-2	2,6-Dinitrotoluene	10.0 U
106-46-7	1,4-Dichlorobenzene	10.0 U	84-66-2	Diethylphthalate	10.0 U
100-51-6	Benzyl Alcohol	10.0 U	7005-72-3	4-Chlorophenyl-phenylether	10.0 U
9[redacted]	1,2-Dichlorobenzene	10.0 U	86-73-7	Fluorene	10.0 U
9[redacted]	2-Methylphenol	10.0 U	100-01-6	4-Nitroaniline	50.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	10.0 U	534-52-1	4,6-Dinitro-2-Methylphenol	50.0 U
106-44-5	4-Methylphenol	10.0 U	86-30-6	N-Nitrosodiphenylamine (1)	10.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	10.0 U	101-55-3	4-Bromophenyl-phenylether	10.0 U
67-72-1	Hexachloroethane	10.0 U	118-74-1	Hexachlorobenzene	10.0 U
98-95-3	Nitrobenzene	10.0 U	87-86-5	Pentachlorophenol	50.0 U
78-59-1	Isophorone	10.0 U	85-01-8	Phenanthrene	10.0 U
88-75-5	2-Nitrophenol	10.0 U	120-12-7	Anthracene	10.0 U
105-67-9	2,4-Dimethylphenol	10.0 U	84-74-2	Di-n-Butylphthalate	10.0 U
65-85-0	Benzoic Acid	50.0 U	206-44-0	Fluoranthene	10.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	10.0 U	92-87-5	Benzidine	80.0 U
120-83-2	2,4-Dichlorophenol	10.0 U	129-00-0	Pyrene	10.0 U
120-82-1	1,2,4-Trichlorobenzene	10.0 U	85-68-7	Butylbenzylphthalate	10.0 U
91-20-3	Naphthalene	10.0 U	91-94-1	3,3'-Dichlorobenzidine	20.0 U
106-47-8	4-Chloroaniline	10.0 U	56-55-3	Benzo(a)Anthracene	10.0 U
87-68-3	Hexachlorobutadiene	10.0 U	117-81-7	bis(2-Ethylhexyl)Phthalate	10.0 U
59-50-7	4-Chloro-3-Methylphenol	10.0 U	218-01-9	Chrysene	10.0 U
91-57-6	2-Methylnaphthalene	10.0 U	117-84-0	Di-n-Octyl Phthalate	10.0 U
77-47-4	Hexachlorocyclopentadiene	10.0 U	205-99-2	Benzo(b)Fluoranthene	10.0 U
88-06-2	2,4,6-Trichlorophenol	10.0 U	207-08-9	Benzo(k)Fluoranthene	10.0 U
95-95-4	2,4,5-Trichlorophenol	50.0 U	50-32-8	Benzo(a)Pyrene	10.0 U
91-58-7	2-Chloronaphthalene	10.0 U	193-39-5	Indeno(1,2,3-cd)Pyrene	10.0 U
88-74-4	2-Nitroaniline	50.0 U	53-70-3	Dibenz(a,h)Anthracene	10.0 U
131-11-3	Dimethyl Phthalate	10.0 U	191-24-2	Benzo(g,h,i)Perylene	10.0 U
208-96-8	Acenaphthylene	10.0 U			
9[redacted]	3-Nitroaniline	50.0 U			

(1) - Cannot be separated from diphenylamine

AR300283

RD-159

ORGANICS ANALYSIS DATA SHEET

(PAGE 3)

SAMPLE NUMBER
CC-112

LABORATORY NAME: NANCO LABS, INC.

CASE NO: 4961

S1-S

PESTICIDE/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 9/20/85

Date Analyzed: 9/28/85

Conc/Dil Factor ----------> 1

CAS Number		(ug/l) or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4' DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.10 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.00 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.00 U
11096-82-5	Aroclor-1260	1.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

AR100284

Vs 1000 / orWs _____ Vt 10000 / Vi _____

S2-3

ORGANICS ANALYSIS DATA SHEET

(PAGE 1)

SAMPLE NUMBER
CC-113

Laboratory Name:NANCO LABORATORY INC.
Lab Sample ID No:>P1437
Sample Matrix: WATER
Data Release Authorized By: George Odell

Case No: 4961
QC Report No: 029
Contract No:68-01-7102
Date Sample Received: 9/20/85

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 9/20/85
Date Analyzed: 9/23/85
Conc/Dil Factor: 1 pH: 6.7
Percent Moisture: N/A
Percent Moisture (Decanted): NA

ber		(ug/l) or ug/Kg (Circle One)	CAS Number		(ug/l) or ug/Kg (Circle One)
87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
09-2	Methylene Chloride	43.0 B	124-48-1	Dibromochloromethane	5.0 U
64-1	Acetone	15.0 B	79-00-5	1,1,2-Trichloroethane	5.0 U
15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	1.8 J
35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
[redacted]	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
[redacted]	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	1.3 JB
23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
				Total Xylenes	5.0 U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

.UE
the result is a value greater than or equal to the detection
mit, report the value.

dicates compound was analyzed for but not detected. Report
e minimum detection limit for the sample with the U(e.g.10U
sed on necessary concentration dilution actions. (This is not
cessarily the instrument detection limit.) The footnote should
ad U-Compound was analyzed for but not detected.The number is
e minimum attainable detection limit for the sample.

dicates an estimated value.This flag is used either when
ti[redacted]g a concentration for tentatively identified compounds
e[redacted]1 response is assumed or when the mass spectral data
dic[redacted]s the presence of a compound that meets the identification
iteria but the result is less than the specified detection limit
t greater than zero (e.g. 10J).

C
This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

B
This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHER
Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

AR100285

FORM I

S2-4

ORGANIC ANALYSIS DATA SHEET
(PAGE 2)

LABORATORY NAME: NANCO LABS. INC.
CASE NO: 4961

SAMPLE NO.
BC-113

SEMIVOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 9/20/85
Date Analyzed: 9/29/85
Conc/Dil Factor: 1

CAS Number		(ug/l) or ug/Kg (Circle One)	CAS Number		(ug/l) or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10.0 U	83-32-9	Acenaphthene	10.0 U
108-95-2	Phenol	10.0 U	51-28-5	2,4-Dinitrophenol	50.0 U
62-53-3	Aniline	10.0 U	100-02-7	4-Nitrophenol	50.0 U
111-44-4	bis(-2-Chloroethyl)Ether	10.0 U	132-64-9	Dibenzofuran	10.0 U
95-57-8	2-Chlorophenol	10.0 U	121-14-2	2,4-Dinitrotoluene	10.0 U
541-73-1	1,3-Dichlorobenzene	10.0 U	606-20-2	2,6-Dinitrotoluene	10.0 U
106-46-7	1,4-Dichlorobenzene	10.0 U	84-66-2	Diethylphthalate	10.0 U
100-51-6	Benzyl Alcohol	10.0 U	7005-72-3	4-Chlorophenyl-phenylether	10.0 U
95-50-1	1,2-Dichlorobenzene	10.0 U	86-73-7	Fluorene	10.0 U
95-48-7	2-Methylphenol	10.0 U	100-01-6	4-Nitroaniline	50.0
39638-32-9	bis(2-chloroisopropyl)Ether	10.0 U	534-52-1	4,6-Dinitro-2-Methylphenol	50.0
106-44-5	4-Methylphenol	10.0 U	86-30-6	N-Nitrosodiphenylamine (1)	10.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	10.0 U	101-55-3	4-Bromophenyl-phenylether	10.0 U
67-72-1	Hexachloroethane	10.0 U	118-74-1	Hexachlorobenzene	10.0 U
98-95-3	Nitrobenzene	10.0 U	87-86-5	Pentachlorophenol	50.0 U
78-59-1	Isophorone	10.0 U	85-01-8	Phenanthrene	10.0 U
88-75-5	2-Nitrophenol	10.0 U	120-12-7	Anthracene	10.0 U
105-67-9	2,4-Dimethylphenol	10.0 U	84-74-2	Di-n-Butylphthalate	10.0 U
65-85-0	Benzoic Acid	50.0 U	206-44-0	Fluoranthene	10.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	10.0 U	92-87-5	Benzidine	80.0 U
120-83-2	2,4-Dichlorophenol	10.0 U	129-00-0	Pyrene	10.0 U
120-82-1	1,2,4-Trichlorobenzene	10.0 U	85-68-7	Butylbenzylphthalate	10.0 U
91-20-3	Naphthalene	10.0 U	91-94-1	3,3'-Dichlorobenzidine	20.0 U
106-47-8	4-Chloroaniline	10.0 U	56-55-3	Benzo(a)Anthracene	10.0 U
87-68-3	Hexachlorobutadiene	10.0 U	117-81-7	bis(2-Ethylhexyl)Phthalate	10.0 U
59-50-7	4-Chloro-3-Methylphenol	10.0 U	218-01-9	Chrysene	10.0 U
91-57-6	2-Methylnaphthalene	10.0 U	117-84-0	Di-n-Octyl Phthalate	10.0 U
77-47-4	Hexachlorocyclopentadiene	10.0 U	205-99-2	Benzo(b)Fluoranthene	10.0 U
88-06-2	2,4,6-Trichlorophenol	10.0 U	207-08-9	Benzo(k)Fluoranthene	10.0 U
95-95-4	2,4,5-Trichlorophenol	50.0 U	50-32-8	Benzo(a)Pyrene	10.0 U
91-58-7	2-Chloronaphthalene	10.0 U	193-39-5	Indeno(1,2,3-cd)Pyrene	10.0 U
88-74-4	2-Nitroaniline	50.0 U	53-70-3	Dibenz(a,h)Anthracene	10.0 U
131-11-3	Dimethyl Phthalate	10.0 U	191-24-2	Benzo(g,h,i)Perylene	10.0 U
208-96-8	Acenaphthylene	10.0 U			
99-09-2	3-Nitroaniline	50.0 U			

(1) - Cannot be separated from diphenylamine

ARI00286

FORM I

S2-5

ORGANICS ANALYSIS DATA SHEET

(PAGE 3)

SAMPLE NUMBER
CC-113

LABORATORY NAME: NANCO LABS, INC.

CASE NO: 4961

PESTICIDE/PCBs

Concentration: (LOW) Medium (Circle One)

Date Extracted/Prepared: 9/20/85

Date Analyzed: 9/29/85

Conc/Dil Factor ----------> 1

CAS Number		(ug/L) or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.10 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.00 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.00 U
11096-82-5	Aroclor-1260	1.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

AR100287

Vs 1000 or Ws _____ Vt 10000 Vi _____

S3-3

ORGANICS ANALYSIS DATA SHEET
(PAGE 1)

SAMPLE NUMBER
CC-114

Laboratory Name:NANCO LABORATORY INC.
Lab Sample ID No:>P1446
Sample Matrix: WATER
Data Release Authorized By: George O'Dell

Case No: 4961
QC Report No: 029
Contract No:68-01-7102
Date Sample Received: 9/20/85

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 9/20/85
Date Analyzed: 9/24/85
Conc/Dil Factor: 1 pH: 7.2
Percent Moisture: N/A
Percent Moisture (Decanted): NA

CAS Number		(ug/l) or ug/Kg (Circle One)	CAS Number		(ug/l) or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	6.1 JB	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	13.0	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	1.6 J	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
				Total Xylenes	5.0 U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

E

he result is a value greater than or equal to the detection mit, report the value.

cates compound was analyzed for but not detected. Report minimum detection limit for the sample with the U(e.g.10U sed on necessary concentration dilution actions. (This is not ssarily the instrument detection limit.) The footnote should U-Compound was analyzed for but not detected.The number is e minimum attainable detection limit for the sample.

cates an estimated value.This flag is used either when timating a concentration for tentatively identified compounds re a 1 1 response is assumed or when the mass spectral data cates the presence of a compound that meets the identification eria but the result is less than the specified detection limit t greater than zero (e.g. 10J).

C

This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

B

This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHER

Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

AR-00268

FORM I

S3-4

ORGANIC ANALYSIS DATA SHEET
(PAGE 2)

LABORATORY NAME: NANCO LABS. INC.
CASE NO: 4961

SAMPLE NO.
BC-114

SEMIVOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 9/20/85
Date Analyzed: 9/29/85
Conc/Dil Factor: 1

CAS Number		(ug/l) or ug/Kg (Circle One)	CAS Number		(ug/l) or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10.0 U	83-32-9	Acenaphthene	10.0 U
108-95-2	Phenol	10.0 U	51-28-5	2,4-Dinitrophenol	50.0 U
62-53-3	Aniline	10.0 U	100-02-7	4-Nitrophenol	50.0 U
111-44-4	bis(-2-Chloroethyl)Ether	10.0 U	132-64-9	Dibenzofuran	10.0 U
95-57-8	2-Chlorophenol	10.0 U	121-14-2	2,4-Dinitrotoluene	10.0 U
541-73-1	1,3-Dichlorobenzene	10.0 U	606-20-2	2,6-Dinitrotoluene	10.0 U
106-46-7	1,4-Dichlorobenzene	10.0 U	84-66-2	Diethylphthalate	10.0 U
100-51-6	Benzyl Alcohol	10.0 U	7005-72-3	4-Chlorophenyl-phenylether	10.0 U
[redacted]-1	1,2-Dichlorobenzene	10.0 U	86-73-7	Fluorene	10.0 U
[redacted]7	2-Methylphenol	10.0 U	100-01-6	4-Nitroaniline	50.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	10.0 U	534-52-1	4,6-Dinitro-2-Methylphenol	50.0 U
106-44-5	4-Methylphenol	10.0 U	86-30-6	N-Nitrosodiphenylamine (1)	10.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	10.0 U	101-55-3	4-Bromophenyl-phenylether	10.0 U
67-72-1	Hexachloroethane	10.0 U	118-74-1	Hexachlorobenzene	10.0 U
98-95-3	Nitrobenzene	10.0 U	87-86-5	Pentachlorophenol	50.0 U
78-59-1	Isophorone	10.0 U	85-01-8	Phenanthrene	10.0 U
88-75-5	2-Nitrophenol	10.0 U	120-12-7	Anthracene	10.0 U
105-67-9	2,4-Dimethylphenol	10.0 U	84-74-2	Di-n-Butylphthalate	10.0 U
65-85-0	Benzoic Acid	50.0 U	206-44-0	Fluoranthene	10.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	10.0 U	92-87-5	Benzidine	80.0 U
120-83-2	2,4-Dichlorophenol	10.0 U	129-00-0	Pyrene	10.0 U
120-82-1	1,2,4-Trichlorobenzene	10.0 U	85-68-7	Butylbenzylphthalate	10.0 U
91-20-3	Naphthalene	10.0 U	91-94-1	3,3'-Dichlorobenzidine	20.0 U
106-47-8	4-Chloroaniline	10.0 U	56-55-3	Benzo(a)Anthracene	10.0 U
87-68-3	Hexachlorobutadiene	10.0 U	117-81-7	bis(2-Ethylhexyl)Phthalate	10.0 U
59-50-7	4-Chloro-3-Methylphenol	10.0 U	218-01-9	Chrysene	10.0 U
91-57-6	2-Methylnaphthalene	10.0 U	117-84-0	Di-n-Octyl Phthalate	10.0 U
77-47-4	Hexachlorocyclopentadiene	10.0 U	205-99-2	Benzo(b)Fluoranthene	10.0 U
88-06-2	2,4,6-Trichlorophenol	10.0 U	207-08-9	Benzo(k)Fluoranthene	10.0 U
95-95-4	2,4,5-Trichlorophenol	50.0 U	50-32-8	Benzo(a)Pyrene	10.0 U
91-58-7	2-Chloronaphthalene	10.0 U	193-39-5	Indeno(1,2,3-cd)Pyrene	10.0 U
88-74-4	2-Nitroaniline	50.0 U	53-70-3	Dibenz(a,h)Anthracene	10.0 U
131-11-3	Dimethyl Phthalate	10.0 U	191-24-2	Benzo(g,h,i)Perylene	10.0 U
208-96-8	Acenaphthylene	10.0 U			
[redacted]2	3-Nitroaniline	50.0 U			

(1) - Cannot be separated from diphenylamine

AR100289

S3-5

ORGANICS ANALYSIS DATA SHEET
(PAGE 3)

SAMPLE NUMBER
CC-114

LABORATORY NAME: NANCO LABS, INC.
CASE NO: 4961

PESTICIDE/PCBs

Concentration: (LOW) Medium (Circle One)
Date Extracted/Prepared: 9/20/85
Date Analyzed: 9/29/85
Conc/Dil Factor ----------> 1

CAS Number		(ug/L) or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.10 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.00 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.00 U
11096-82-5	Aroclor-1260	1.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

AR100290

Vs 1000 / orWs _____ Vt 10000 / Vi 3

FORM I

S4-3

ORGANICS ANALYSIS DATA SHEET

(PAGE 1)

SAMPLE NUMBER
CC-115

Laboratory Name:NANCO LABORATORY INC.
Lab Sample ID No:>P1439
Sample Matrix: WATER
Data Release Authorized By: George O'Dell

Case No: 4961
QC Report No: 029
Contract No:68-01-7102
Date Sample Received: 9/20/85

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 9/20/85
Date Analyzed: 9/23/85
Conc/Dil Factor: 1 pH: 7.2
Percent Moisture: N/A
Percent Moisture (Decanted): NA

CAS Number		(ug/l) or ug/Kg (Circle One)	CAS Number		(ug/l) or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	25.0 B	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	10.0 B	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	0.9 J
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-[illegible]	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
15-[illegible]	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
				Total Xylenes	5.0 U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

ALUE
If the result is a value greater than or equal to the detection limit, report the value.

I
ndicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U(e.g.10U ased on necessary concentration dilution actions. (This is not ecessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected.The number is the minimum attainable detection limit for the sample.

J
[illegible]s an estimated value.This flag is used either when es[illegible]ing a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

C
This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

B
This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHER
Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

AR100291

AR100291

S4-4

ORGANIC ANALYSIS DATA SHEET
(PAGE 2)

LABORATORY NAME: NANCO LABS. INC.
CASE NO: 4961

SAMPLE NO.
BC-115

SEMIVOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 9/20/85
Date Analyzed: 9/29/85
Conc/Dil Factor: 1

CAS Number		(ug/l) or ug/Kg (Circle One)	CAS Number		(ug/l) or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10.0 U	83-32-9	Acenaphthene	10.0 U
108-95-2	Phenol	10.0 U	51-28-5	2,4-Dinitrophenol	50.0 U
62-53-3	Aniline	10.0 U	100-02-7	4-Nitrophenol	50.0 U
111-44-4	bis(-2-Chloroethyl)Ether	10.0 U	132-64-9	Dibenzofuran	10.0 U
95-57-8	2-Chlorophenol	10.0 U	121-14-2	2,4-Dinitrotoluene	10.0 U
541-73-1	1,3-Dichlorobenzene	10.0 U	606-20-2	2,6-Dinitrotoluene	10.0 U
106-46-7	1,4-Dichlorobenzene	10.0 U	84-66-2	Diethylphthalate	10.0 U
100-51-6	Benzyl Alcohol	10.0 U	7005-72-3	4-Chlorophenyl-phenylether	10.0 U
95-50-1	1,2-Dichlorobenzene	10.0 U	86-73-7	Fluorene	10.0 U
95-48-7	2-Methylphenol	10.0 U	100-01-6	4-Nitroaniline	50.0
39638-32-9	bis(2-chloroisopropyl)Ether	10.0 U	534-52-1	4,6-Dinitro-2-Methylphenol	50.0 U
106-44-5	4-Methylphenol	10.0 U	86-30-6	N-Nitrosodiphenylamine (1)	10.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	10.0 U	101-55-3	4-Bromophenyl-phenylether	10.0 U
67-72-1	Hexachloroethane	10.0 U	118-74-1	Hexachlorobenzene	10.0 U
98-95-3	Nitrobenzene	10.0 U	87-86-5	Pentachlorophenol	50.0 U
78-59-1	Isophorone	10.0 U	85-01-8	Phenanthrene	10.0 U
88-75-5	2-Nitrophenol	10.0 U	120-12-7	Anthracene	10.0 U
105-67-9	2,4-Dimethylphenol	10.0 U	84-74-2	Di-n-Butylphthalate	10.0 U
65-85-0	Benzoic Acid	23.0 J	206-44-0	Fluoranthene	7.9 J
111-91-1	bis(-2-Chloroethoxy)Methane	10.0 U	92-87-5	Benzidine	80.0 U
120-83-2	2,4-Dichlorophenol	10.0 U	129-00-0	Pyrene	8.1 J
120-82-1	1,2,4-Trichlorobenzene	10.0 U	85-68-7	Butylbenzylphthalate	10.0 U
91-20-3	Naphthalene	10.0 U	91-94-1	3,3'-Dichlorobenzidine	20.0 U
106-47-8	4-Chloroaniline	10.0 U	56-55-3	Benzo(a)Anthracene	10.0 U
87-68-3	Hexachlorobutadiene	10.0 U	117-81-7	bis(2-Ethylhexyl)Phthalate	122.8
59-50-7	4-Chloro-3-Methylphenol	10.0 U	218-01-9	Chrysene	10.0 U
91-57-6	2-Methylnaphthalene	10.0 U	117-84-0	Di-n-Octyl Phthalate	10.0 U
77-47-4	Hexachlorocyclopentadiene	10.0 U	205-99-2	Benzo(b)Fluoranthene	10.0 U
88-06-2	2,4,6-Trichlorophenol	10.0 U	207-08-9	Benzo(k)Fluoranthene	10.0 U
95-95-4	2,4,5-Trichlorophenol	50.0 U	50-32-8	Benzo(a)Pyrene	10.0 U
91-58-7	2-Chloronaphthalene	10.0 U	193-39-5	Indeno(1,2,3-cd)Pyrene	10.0 U
88-74-4	2-Nitroaniline	50.0 U	53-70-3	Dibenz(a,h)Anthracene	10.0 U
131-11-3	Dimethyl Phthalate	10.0 U	191-24-2	Benzo(g,h,i)Perylene	10.0 U
208-96-8	Acenaphthylene	10.0 U			
99-09-2	3-Nitroaniline	50.0 U			

(1) - Cannot be separated from diphenylamine

AR-100292

S4-5 L

ORGANICS ANALYSIS DATA SHEET
(PAGE 3)

SAMPLE NUMBER
CC-115

LABORATORY NAME: NANCO LABS, INC.
CASE NO: 4961

PESTICIDE/PCBs

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 9/20/85
Date Analyzed: 9/29/85
Conc/Dil Factor ----------> 1

CAS Number		(ug/l) or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.10 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.00 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.00 U
11096-82-5	Aroclor-1260	1.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

AR100293

Vs 1000 or Ws _____ Vt 10000 Vi 3

APPENDIX E

AR100294

ORGANICS ANALYSIS DATA SHEET SAMPLE #: CB832

LABORATORY: IT/CERR
LABORATORY ID: 34887N7
MATRIX: SOIL

CASE #/SAS #: 5110
QC REPORT #: 6962-239
CONTRACT #: 6962
DATE RECEIVED: 10/31/85

DATA RELEASE AUTHORIZED BY:

VOLATILE COMPOUNDS

LEVEL:	LOW
DATE EXT/PREP:	11/09/85
DATE ANALYZED:	11/09/85
SPL-->EXTRACT:	1.008G
PH:	9.4
% MOISTURE (NOT DEC.):	24.16
% MOISTURE (DEC.):	Not Analyzed
STANDARD ID:	VOA512
SENSITIVITY ID:	BFD456
UNITS:	UG/KG

PP #	CAS #		CONC	
45V	74-87-3	CHLOROMETHANE	50.	U
46V	74-83-9	BROMOMETHANE	50.	U
88V	75-01-4	VINYL CHLORIDE	50.	U
16V	75-00-3	CHLOROETHANE	50.	U
44V	75-09-2	METHYLENE CHLORIDE	50.	B
13H	67-64-1	ACETONE	130.	
15H	75-15-0	CARBON DISULFIDE	30.	U
29V	75-35-4	1,1-DICHLOROETHENE	30.	U
13V	75-34-3	1,1-DICHLOROETHANE	30.	U
30V	156-60-5	TRANS-1,2-DICHLOROETHENE	30.	U
23V	67-66-3	CHLOROFORM	30.	U
10V	107-06-2	1,2-DICHLOROETHANE	30.	U
14H	78-93-3	2-BUTANONE	50.	U
11V	71-55-6	1,1,1-TRICHLOROETHANE	30.	U
6V	56-23-5	CARBON TETRACHLORIDE	30.	U
19H	108-05-4	VINYL ACETATE	50.	U
48V	75-27-4	BROMODICHLOROMETHANE	30.	U
32V	78-87-5	1,2-DICHLOROPROPANE	30.	U
33VT	10061-02-6	TRANS-1,3-DICHLOROPROPENE	30.	U
87V	79-01-6	TRICHLOROETHENE	30.	U
51V	124-48-1	CHLORODIBROMOMETHANE	30.	U
14V	79-00-5	1,1,2-TRICHLOROETHANE	30.	U
4V	71-43-2	BENZENE	30.	U
33VC	10061-01-5	CIS-1,3-DICHLOROPROPENE	30.	U
19V	110-75-8	2-CHLOROETHYLVINYL ETHER	50.	U
47V	75-25-2	BROMOFORM	30.	U
16H	519-78-6	2-HEXANONE	50.	U
17H	108-10-1	4-METHYL-2-PENTANONE	50.	U
35V	127-18-4	TETRACHLOROETHENE	30.	U
15V	79-34-5	1,1,2,2-TETRACHLOROETHANE	30.	U
86V	108-88-3	TOLUENE	5.	J
7V	108-90-7	CHLOROBENZENE	30.	U
38V	100-41-4	ETHYLBENZENE	30.	U
18H	100-42-5	STYRENE	30.	U
20H	95-47-6	TOTAL XYLENES	30.	U

AR100295

QUALITY CONTROL REPORT
MATRIX SPIKE (MS AND MSD)
% RECOVERY AND RPD SUMMARY
LABORATORY: IT/WCTS

CASE #/SAS #: 5110 SAMPLE #: CB831
LEVEL: LOW CONTRACT #: 68-01-6962
MATRIX: SOIL UNITS: UG/KG
Q.C. REPORT #: 6962-239

BASE/NEUTRAL AND ACID COMPOUNDS

COMPOUND	CONC SPKD (UG/KG)	CONC SAMPLE	CONC MS	% REC MS	CONC MSD	% REC MSD	RPD
RICHLOROBENZENE	2070.	200. U	1000.	48	1000.	48	0
CENAPHTHENE	2010.	200. U	1100.	55	1100.	55	0
4-DINITROTOLUENE	2020.	200. U	1000.	50	990.	49	0
~~I-N-BUTYLPHTHALATE~~	~~2070.~~	~~200. U~~	~~940.~~	~~46~~	~~800.~~	~~39~~	~~16~~
YRENE	2020.	200. U	1200.	60	1100.	55	9
ITROSOPROPYLAMINE	2040.	200. U	970.	48	1000.	49	-3
4-DICHLOROBENZENE	2030.	200. U	950.	47	940.	46	0
ENTACHLOROPHENOL	4130.	1000. U	1000. J	24	610. J	15*	48*
HENOL	4050.	200. U	1800.	45	1800.	45	0
-CHLOROPHENOL	4250.	200. U	2100.	50	2300.	54	-9
-CHLORO-M-CRESOL	4100.	200. U	1500.	37	1200.	29	22
-N[illegible]OPHENOL	4300.	1000. U	950. J	22	830. J	19	1[illegible]
ITROBENZENE-D5	1020.	618.	672.	66	647.	64	4
-FLUOROBIPHENYL	1030.	659.	645.	63	642.	62	0
-TERPHENYL-D14	1030.	532.	545.	53	565.	55	-3
HENOL-D5	2060.	1290.	1310.	64	1400.	68	-6
-FLUOROPHENOL	2030.	1000.	1070.	53	1100.	54	-3
RIBROMOPHENOL	2050.	1040.	1030.	50	1010.	49	2

* - ASTERISKED VALUES ARE OUTSIDE QC LIMITS

RPD=(MS-MSD)/((MS+MSD)/2)*100

RECOVERY: B/N'S 0 OUT OF 18 OUTSIDE QC LIMITS
ACIDS 1 OUT OF 16 OUTSIDE QC LIMITS

RPD: B/N'S 0 OUT OF 9 OUTSIDE QC LIMITS
ACIDS 1 OUT OF 8 OUTSIDE QC LIMITS

Summary of Unspiked HSL's

Compound	Conc. Sample	Conc. MS	Conc. MSD	RPD
Di-n-butylphthalate	200u	940	800	16
			AR100296	

To: Mr. David Cohen, Sitkin Smelting and Refining Company
Mr. Lynn T Pesto, C. I. T. Corporation

From: David A. Kurtz, PCB Consultant

Date: May 14, 1979

Analysis of Soils for Polychlorinated Biphenyl
Contamination of the Transformer Treatment Area
Sitkin Smelting and Refining Company

An area at the Sitkin Smelting and Refining Company land located 6 miles to the east of Lewistown, PA was sampled on March 13, 1979 for polychlorinated biphenyl (PCB) contamination. This area, the former transformer treatment area, is a segment of land located near the eastern end of the property north of the Company's main longitudinal road. It extended approximately 250 feet along this road. The designated area thence extended about 350 feet towards Jacks Creek. Total distance to the creek from the road was about 900 feet. There was a decided slope to the land towards the creek. The prevailing winds were up the valley towards the northeast.

The selected sampling sites were determined in attempting to get the most information from the least number of samples. Sampling was determined so as to enable the data to be subjected to statistical analysis if need be.

In the transformer area there were selected two sampling sites, sites chosen to be the highest points of contamination: the working area near an old steel wind and sun shield and the storage area where some parts were still located at the time of sampling. The soil at the working area and to a much lower extent at the storage area as well had a dark oily appearance. All other areas lacked such an oily appearance.

Two lines were then followed to trace the possible movement of PCB's over time: surface flow via water movement towards the creek and atmospheric movement towards the north east. In these directions the second set of samples was taken near the edge of the transformer

area and a third set an equal distance beyond. Finally a control sample was taken across Jacks Creek on the bank 5 feet up from the stream surface and a little upstream of the easternmost edge of the transformer area.

At each sampling point there were taken two samples at a 6 foot separation. The information from this data would be used to determine the within-area variance.

Two pits were dug with a back hoe, one at the working area and the other at the middle point of the surface movement line. This enabled sampling to be done at an 18 inch depth below the surface to determine PCB movement through the soil itself.

In addition each sample was split (by quartering in a stainless steel bowl), one half to be analyzed by our laboratory and the other by DER of Pennsylvania. Since no written copy of the DER results have yet been received by this writer, the data they represent have not been included in this report.

Each of these areas is included on a map in Figure 1. In addition the analysis information (total PCB ppm in $\mu g/g$) is included on this map for clarity: individual samples of PCB concentration in green and the average (mean) of each pair in red.

In looking first at the means, the working and storage areas were 3.3 and 7.3 ppm, respectively. This level is very moderate indeed especially since it is known that some soil samples in other areas of the U.S. contained PCB's at the %level.

In the downhill direction the value of area 4 (middle position of surface movement) was also 7.4 ppm but the third sample in this direction had a much lower value, 0.26 ppm, which is one tenth that of the main area.

To the windward the middle sample was found to contain only traces of PCB, 0.03 ppm, while the far sample was 0.09 ppm.

Finally the control sample on the other side of the creek contained 0.03 ppm.

AR100298

SIGNIFICANCE OF RESULTS

I should divert somewhat and consult with what is the current thinking in regard to PCB's in sewage sludge being applied to agricultural lands. My colleague, Dr. Dale Baker, Professor of Agronomy at Penn State University, has indicated that current maximum concentrations of PCB's in sludge that is applied to agricultural lands is limited to a maximum of 10 ppm PCB. When applied to soil at 60 tons/acre annually, this amounts to an annual addition of 0.6 ppm/acre. (2 000 000 pounds soil/acre). At this rate we could easily use both the drainage and windward fields for crops. Agricultural lands after 10 years of sewage amended applications would be equivalent to the condition of the main working areas existing at present. Since this land is not intended to be used for either agricultural or residential uses but rather an industrial use, the presence of these amounts of PCB's should pose to be no general hazard in their use.

There is some evidence of surface movement. The downhill direction contained from 3 to 10 times that of the windward direction.

The concentrations in the windward direction were only of trace levels. While they show some movement, it is of very little consequence. The control area may have resulted from this type of movement.

Both pit samples showed that at 18 inches below the surface there was no PCB movement through the soil.

Examination of the individual samples of each pair shows first that there is a consistancy in type of PCB in that area. For example, area 1 has both Aroclor 1260 and Aroclor 1016 in both samples. Second, since some pairs have widely divergent values (area 4 with 0.83 and 14 ppm, for example), this leads one to conclude that there is not much surface movement. Surface movement would tend to even out the concentrations.

Finally, there is no evidence of contamination in the sampling process. The sampling order by areas was 3,5,8,6,4,12,11,2,1. Since area 8 followed area 5, its content of 0.03 ppm could not have come from that of 5's at 0.09 ppm. Area 12 (<0.01) followed area 4 (7.4 ppm). Between samples the equipment was washed several times with pesticide grade solvents.

AR100299

CONCLUSIONS

1. The general level of PCB contamination in the transformer area appears to be relatively low and of no toxicological threat to persons in the general area.

2. The perimeter areas are of so low a concentration that they could be used at present for growing crops for human and animal consumption.

3. The PCB's do not move through the soil proper where there is no water channelling.

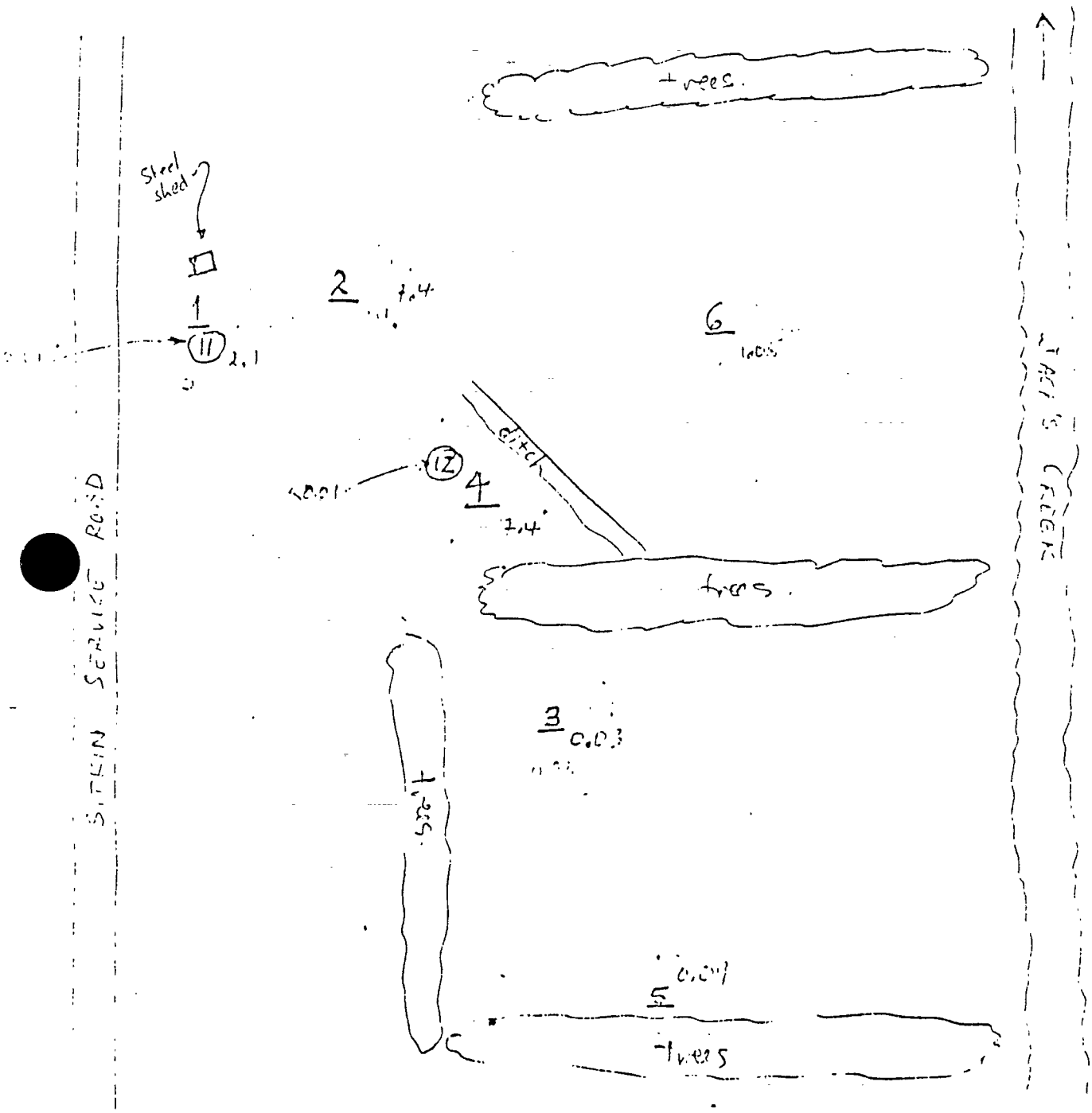
AR100300

Soil Analysis for PCB's by Area and PCB Type

Area	ID No.	% Moisture	Polychlorinated Biphenyls, ppm 1260	1254	1248	1016	Total
WORKING AREA							
1	3	13	1.6			1.4	3.0
	3 replicate	5.4	2.2			3.2	5.4
	8	5.4	0.31			0.89	1.20
2	14	14		14..			14.
	14 replicate	14		11.			11.
	18	11		0.65			0.65
11 pit(1)	15	16					<0.01
DRAINAGE AREA							
4	1	11	0.83				0.83
	1 rep.	11	0.78				0.78
	11	20	14.				14.
6	2	14	0.52				0.5
	16	15		0.57	1.0		1.5
12 pit(4)	7	10					<0.01
WINDWARD AREA							
3	6	11		0.03			0.03
	9	11		0.29			0.29
	9 rep	11		0.04			0.04
5	12	16		0.03			0.03
	13	25		0.15			0.15
CONTROL ACROSS CREEK							
8	4	19		0.05			0.05
	5	15					<0.01
RECOVERIES							
	13	added 0.78 ppm 1254, recovered 0.76					78%
	14	added 325 ppm 1254, recovered 260					80%

AR100301

Transformer Operations Site – Individual and Mean Values
(Replicate Values not Included)



KEY: 3 Areas
(11) Pit
Individual PCB Totals
1.0 Mean PCB Totals

AR100302

[illegible] (R)

May 7, 1979

ANALYSIS RESULTS FOR:

Dr. David A. Kurtz
118 E. South Hills Ave.
State College, PA 16801

Analysis of Soil for PCB's

Lab No.	Customer I.D.	Percent Moisture	Dry Weight ppm PCB's	Species	Phone 5-14
23365-1	01	11	0.83	1260	
23365-1 Rep.	01 Replicate	11	0.78	1260	
23365-2	02	14	0.52	1260	✓
23365-3	03	13	1.4 1.6	1016 1260	✓
23365-3 Rep.	03 Replicate	5.4	3.2 2.2	1016 1260	✓
23365-4	04	19	0.050	1254	
23365-5	05	15	<0.01	----	
23365-6	06	11	0.028	1254	
23365-7	07	10	0.01	----	<0.01
23365-8	08	5.4	0.31 0.89	1260 1016	
23365-9	09	11	0.29	1254	0.029
23365-9 Rep.	09 Replicate	11	0.036	1254	
23365-10	11	20	14	1260	✓
23365-11	12	16	0.028	1254	
23365-12	13	25	0.15	1254	
23365-13	14	14	14	1254	✓
23365-13 Rep.	14 Replicate	14	11	1254	✓
23365-14	15	6	<0.01	----	
23365-15	16	15	1.0 0.57	1248 1254	
23365-16	18	11	0.65	1254	
23365-12 Sp.	13 + 0.78 ppm	--	0.76	1254	> 78
23365-13 Sp.	14 + 325 ppm	--	260	1254	76.6%

.76 − .15 = .61

11/249

Shari Brubaker

AR100303

SUBJECT: Soil Sampling for PCB's
SITKIN Smelting and Refining Company
Decatur Twp., Mifflin County

RECEIVED

DER - [illegible]
Lewistown Field Office

TO: Solid Waste Manager
Region IV

FROM: Douglas Lorenzen
Soils Laboratory
Bureau of Solid Waste Management

INTRODUCTION

On Tuesday, March 13, 1979 a soil survey was conducted at SITKIN Smelting and Refining Company in Decatur Township, Mifflin County to determine if PCB's are present in the soil, and if so, at what concentrations.

Present for the investigation on this clear warm day were: Mr. David Cohen, SITKIN Smelting and Refining; Dr. David Kurtz, Consultant to SITKIN Smelting and Refining; Ron Hassinger, Water Quality Management, Lewistown; Frank Bertovich, Solid Waste Management, Lewistown; Wilbur Taxis, Solid Waste Director, Region IV; Bill Hanczar, Soil Scientist, Williamsport; and Doug Lorenzen, Soil Scientist, Harrisburg.

The site is located on the Alfarata 7.5 minute quadrangle approximately 3.5 inches north and 13.25 inches west of the southeast corner or 40° 38' 10" nor latitude and 77° 28' 16" west longitude. Topographically, the site lies in the southern half of the flood plain of Jack's Creek. Jacks Creek drains the area between Jacks Mountain on the north and Shade Mountain on the south and flows west into the Juniata River.

The sampling program area in which the soil sampling was done was east of the main gate approximately 1,000 feet and encompasses an area approximately 350-400 feet wide, parallel to the creek and 250-300 feet deep perpendicular to the creek which is an area of 2 to 3 acres. Figure 1 is a sketch of the area showing the sampling points with relation to each other. The site had been used by SITKIN as a transformer storage and work area. Steel barrels (55 gallon drums) were strewn about in piles over site along with various sorts of electronic equipment, and other junk. Locations of these piles are also shown in Figure 1. Lids cut from the ends of the barrels were also scattered about over the site. The soil surrounding a corrugated steel shed (Areas 1, 2, & 4) in the southwest corner of the site appeared black and oil-caked on the surface. This was assumed to be the section in which the highest contamination of PCB's would occur. North of this oil-caked surface toward the creek a depression filled with water and sediment is present. It is not known whether this is natural of man-made, however, [illegible] ditch did empty into this depression that collected water from the areas of assumed high contamination. The remaining areas of the eastern half of the site were not oil-caked, but oil spots were present.

AR 100384

55-3

ORGANICS ANALYSIS DATA SHEET
(PAGE 1)

SAMPLE NUMBE
CC-117

Laboratory Name:NANCO LABORATORY INC.
Lab Sample ID No:>P1440
Sample Matrix: WATER
Data Release Authorized By:

Case No: 4961
QC Report No: 029
Contract No:68-01-7102
Date Sample Received: 9/20/85

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 9/20/85
Date Analyzed: 9/23/85
Conc/Dil Factor: 1 pH: 6.7
Percent Moisture: N/A
Percent Moisture (Decanted): NA

S mber		(ug/l) or ug/Kg (Circle One)	CAS Number		(ug/l) or ug/K (Circle One)
-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
-09-2	Methylene Chloride	32.0 B	124-48-1	Dibromochloromethane	5.0 U
-64-1	Acetone	12.0 B	79-00-5	1,1,2-Trichloroethane	5.0 U
-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	1.0 J
-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0
66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0
-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
				Total Xylenes	5.0 U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

s result is a value greater than or equal to the detection , report the value.

ates compound was analyzed for but not detected. Report inimum detection limit for the sample with the U(e.g.10U on necessary concentration dilution actions. (This is not arily the instrument detection limit.) The footnote should l-Compound was analyzed for but not detected.The number is nimum attainable detection limit for the sample.

ates an estimated value.This flag is used either when ating a concentration for tentatively identified compounds a 1 1 response is assumed or when the mass spectral data ates the presence of a compound that meets the identification ria but the result is less than the specified detection limit reater than zero (e.g. 10J).

C
This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

B
This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHER
Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

AR100305

ORGANIC ANALYSIS DATA SHEET
(PAGE 2)

S5-4

LABORATORY NAME: NANCO LABS. INC.
CASE NO: 4961

SAMPLE NO.
BC-117

SEMIVOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 9/20/85
Date Analyzed: 9/29/85
Conc/Dil Factor: 1

CAS Number		(ug/l) or ug/Kg (Circle One)	CAS Number		(ug/l) or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10.0 U	83-32-9	Acenaphthene	10.0 U
108-95-2	Phenol	10.0 U	51-28-5	2,4-Dinitrophenol	50.0 U
62-53-3	Aniline	10.0 U	100-02-7	4-Nitrophenol	50.0 U
111-44-4	bis(-2-Chloroethyl)Ether	10.0 U	132-64-9	Dibenzofuran	10.0 U
95-57-8	2-Chlorophenol	10.0 U	121-14-2	2,4-Dinitrotoluene	10.0 U
541-73-1	1,3-Dichlorobenzene	10.0 U	606-20-2	2,6-Dinitrotoluene	10.0 U
106-46-7	1,4-Dichlorobenzene	10.0 U	84-66-2	Diethylphthalate	10.0 U
100-51-6	Benzyl Alcohol	10.0 U	7005-72-3	4-Chlorophenyl-phenylether	10.0 U
[illegible]1	1,2-Dichlorobenzene	10.0 U	86-73-7	Fluorene	10.0 U
[illegible]7	2-Methylphenol	10.0 U	100-01-6	4-Nitroaniline	50.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	10.0 U	534-52-1	4,6-Dinitro-2-Methylphenol	50.0 U
106-44-5	4-Methylphenol	10.0 U	86-30-6	N-Nitrosodiphenylamine (1)	10.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	10.0 U	101-55-3	4-Bromophenyl-phenylether	10.0 U
67-72-1	Hexachloroethane	10.0 U	118-74-1	Hexachlorobenzene	10.0 U
98-95-3	Nitrobenzene	10.0 U	87-86-5	Pentachlorophenol	50.0 U
78-59-1	Isophorone	10.0 U	85-01-8	Phenanthrene	10.0 U
88-75-5	2-Nitrophenol	10.0 U	120-12-7	Anthracene	10.0 U
105-67-9	2,4-Dimethylphenol	10.0 U	84-74-2	Di-n-Butylphthalate	10.0 U
65-85-0	Benzoic Acid	50.0 U	206-44-0	Fluoranthene	10.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	10.0 U	92-87-5	Benzidine	80.0 U
120-83-2	2,4-Dichlorophenol	10.0 U	129-00-0	Pyrene	10.0 U
120-82-1	1,2,4-Trichlorobenzene	10.0 U	85-68-7	Butylbenzylphthalate	10.0 U
91-20-3	Naphthalene	10.0 U	91-94-1	3,3'-Dichlorobenzidine	20.0 U
106-47-8	4-Chloroaniline	10.0 U	56-55-3	Benzo(a)Anthracene	10.0 U
87-68-3	Hexachlorobutadiene	10.0 U	117-81-7	bis(2-Ethylhexyl)Phthalate	10.0 U
59-50-7	4-Chloro-3-Methylphenol	10.0 U	218-01-9	Chrysene	10.0 U
91-57-6	2-Methylnaphthalene	10.0 U	117-84-0	Di-n-Octyl Phthalate	10.0 U
77-47-4	Hexachlorocyclopentadiene	10.0 U	205-99-2	Benzo(b)Fluoranthene	10.0 U
88-06-2	2,4,6-Trichlorophenol	10.0 U	207-08-9	Benzo(k)Fluoranthene	10.0 U
95-95-4	2,4,5-Trichlorophenol	50.0 U	50-32-8	Benzo(a)Pyrene	10.0 U
91-58-7	2-Chloronaphthalene	10.0 U	193-39-5	Indeno(1,2,3-cd)Pyrene	10.0 U
88-74-4	2-Nitroaniline	50.0 U	53-70-3	Dibenz(a,h)Anthracene	10.0 U
131-11-3	Dimethyl Phthalate	10.0 U	191-24-2	Benzo(g,h,i)Perylene	10.0 U
[illegible]-96-8	Acenaphthylene	10.0 U			
[illegible]2	3-Nitroaniline	50.0 U			

(1) - Cannot be separated from diphenylamine

ARI00306

SS-5

ORGANICS ANALYSIS DATA SHEET
(PAGE 3)

SAMPLE NUMBER
CC-117

LABORATORY NAME: NANCO LABS, INC.
CASE NO: 4961

PESTICIDE/PCBs

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 9/20/85
Date Analyzed: 9/29/85
Conc/Dil Factor ----------> 1

CAS Number		(ug/l) or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.10 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.00 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.00 U
11096-82-5	Aroclor-1260	1.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

AR100307

Vs 1000 orWs _____ Vt 10000 Vi 3

FORM I

S6-3

ORGANICS ANALYSIS DATA SHEET

(PAGE 1)

SAMPLE NUMBER
CC-118

Laboratory Name:NANCO LABORATORY INC.
Lab Sample ID No:>P1441
Sample Matrix: WATER
Data Release Authorized By: George Dodd

Case No: 4961
QC Report No: 029
Contract No:68-01-7102
Date Sample Received: 9/20/85

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 9/20/85
Date Analyzed: 9/23/85
Conc/Dil Factor: 1 pH: 7.0
Percent Moisture: N/A
Percent Moisture (Decanted): NA

CAS Number		(ug/l) or ug/Kg (Circle One)	CAS Number		(ug/l) or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	65.0 B	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	7.9 JB	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	1.7 J
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
				Total Xylenes	5.0 U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE
If the result is a value greater than or equal to the detection limit, report the value.

U
Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U(e.g.10U based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected.The number is the minimum attainable detection limit for the sample.

J
Indicates an estimated value.This flag is used either when calculating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

C
This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

B
This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHER
Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

AR100308

S6-4

ORGANIC ANALYSIS DATA SHEET
(PAGE 2)

LABORATORY NAME: NANCO LABS. INC.
CASE NO: 4961

SAMPLE NO.
BC-118

SEMIVOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 9/20/85
Date Analyzed: 10/07/85
Conc/Dil Factor: 1

CAS Number		(ug/l) or ug/Kg (Circle One)	CAS Number		(ug/l) or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10.0 U	83-32-9	Acenaphthene	10.0 U
108-95-2	Phenol	10.0 U	51-28-5	2,4-Dinitrophenol	50.0 U
62-53-3	Aniline	10.0 U	100-02-7	4-Nitrophenol	50.0 U
111-44-4	bis(-2-Chloroethyl)Ether	10.0 U	132-64-9	Dibenzofuran	10.0 U
95-57-8	2-Chlorophenol	10.0 U	121-14-2	2,4-Dinitrotoluene	10.0 U
541-73-1	1,3-Dichlorobenzene	10.0 U	606-20-2	2,6-Dinitrotoluene	10.0 U
106-46-7	1,4-Dichlorobenzene	10.0 U	84-66-2	Diethylphthalate	10.0 U
100-51-6	Benzyl Alcohol	10.0 U	7005-72-3	4-Chlorophenyl-phenylether	10.0 U
95-50-1	1,2-Dichlorobenzene	10.0 U	86-73-7	Fluorene	10.0 U
95-48-7	2-Methylphenol	10.0 U	100-01-6	4-Nitroaniline	50.0
39638-32-9	bis(2-chloroisopropyl)Ether	10.0 U	534-52-1	4,6-Dinitro-2-Methylphenol	50.0
106-44-5	4-Methylphenol	10.0 U	86-30-6	N-Nitrosodiphenylamine (1)	10.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	10.0 U	101-55-3	4-Bromophenyl-phenylether	10.0 U
67-72-1	Hexachloroethane	10.0 U	118-74-1	Hexachlorobenzene	10.0 U
98-95-3	Nitrobenzene	10.0 U	87-86-5	Pentachlorophenol	50.0 U
78-59-1	Isophorone	10.0 U	85-01-8	Phenanthrene	10.0 U
88-75-5	2-Nitrophenol	10.0 U	120-12-7	Anthracene	10.0 U
105-67-9	2,4-Dimethylphenol	10.0 U	84-74-2	Di-n-Butylphthalate	1.0 JB
65-85-0	Benzoic Acid	50.0 U	206-44-0	Fluoranthene	10.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	10.0 U	92-87-5	Benzidine	80.0 U
120-83-2	2,4-Dichlorophenol	10.0 U	129-00-0	Pyrene	10.0 U
120-82-1	1,2,4-Trichlorobenzene	10.0 U	85-68-7	Butylbenzylphthalate	10.0 U
91-20-3	Naphthalene	10.0 U	91-94-1	3,3'-Dichlorobenzidine	20.0 U
106-47-8	4-Chloroaniline	10.0 U	56-55-3	Benzo(a)Anthracene	10.0 U
87-68-3	Hexachlorobutadiene	10.0 U	117-81-7	bis(2-Ethylhexyl)Phthalate	10.0 U
59-50-7	4-Chloro-3-Methylphenol	10.0 U	218-01-9	Chrysene	10.0 U
91-57-6	2-Methylnaphthalene	10.0 U	117-84-0	Di-n-Octyl Phthalate	10.0 U
77-47-4	Hexachlorocyclopentadiene	10.0 U	205-99-2	Benzo(b)Fluoranthene	10.0 U
88-06-2	2,4,6-Trichlorophenol	10.0 U	207-08-9	Benzo(k)Fluoranthene	10.0 U
95-95-4	2,4,5-Trichlorophenol	50.0 U	50-32-8	Benzo(a)Pyrene	19.0
91-58-7	2-Chloronaphthalene	10.0 U	193-39-5	Indeno(1,2,3-cd)Pyrene	10.0 U
88-74-4	2-Nitroaniline	50.0 U	53-70-3	Dibenz(a,h)Anthracene	10.0 U
131-11-3	Dimethyl Phthalate	10.0 U	191-24-2	Benzo(g,h,i)Perylene	10.0 U
208-96-8	Acenaphthylene	10.0 U			
99-09-2	3-Nitroaniline	50.0 U			

(1) - Cannot be separated from diphenylamine

AR100309

FORM I

36-5

ORGANICS ANALYSIS DATA SHEET
(PAGE 3)

SAMPLE NUMBER
CC-118

LABORATORY NAME: NANCO LABS, INC.
CASE NO: 4961

PESTICIDE/PCBs

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 9/20/85
Date Analyzed: 9/29/85
Conc/Dil Factor ----------> 1

CAS Number		(ug/l) or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.10 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.00 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.00 U
11096-82-5	Aroclor-1260	1.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

AR100310

Vs 1000 or Ws _____ Vt 10000 Vi 3

S7-3

ORGANICS ANALYSIS DATA SHEET

(PAGE 1)

SAMPLE NUMBER
CC-119

Laboratory Name:NANCO LABORATORY INC.
Lab Sample ID No:>P1442
Sample Matrix: WATER
Data Release Authorized By:

Case No: 4961
QC Report No: 029
Contract No:68-01-7102
Date Sample Received: 9/20/85

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 9/20/85
Date Analyzed: ~~9/24/85~~ 9/23/85
Conc/Dil Factor: 1 pH: 7.4
Percent Moisture: N/A
Percent Moisture (Decanted): NA

AS umber		(ug/l) or ug/Kg (Circle One)	CAS Number		(ug/l) or ug/Kg (Circle One)
4-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
4-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
5-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
5-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
5-09-2	Methylene Chloride	190.0 B	124-48-1	Dibromochloromethane	5.0 U
7-64-1	Acetone	8.1 JB	79-00-5	1,1,2-Trichloroethane	5.0 U
5-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	2.2 J
5-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
5-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
56-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
7-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0
07-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0
8-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
1-55-6	1,1,1-Trichloroethane	0.5 J	108-88-3	Toluene	5.0 U
5-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
38-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
3-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
				Total Xylenes	5.0 U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

.UE
the result is a value greater than or equal to the detection sit, report the value.

dicates compound was analyzed for but not detected. Report s minimum detection limit for the sample with the U(e.g.10U sed on necessary concentration dilution actions. (This is not ecessarily the instrument detection limit.) The footnote should nd U-Compound was analyzed for but not detected.The number is s minimum attainable detection limit for the sample.

dicates an estimated value.This flag is used either when timating a concentration for tentatively identified compounds ere a 1 1 response is assumed or when the mass spectral data dicates the presence of a compound that meets the identification iteria but the result is less than the specified detection limit t greater than zero (e.g. 10J).

C
This flag applies to pesticide parameters where the identificatic has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirm by GC/MS

B
This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHER
Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

AR100311

FORM I

ORGANIC ANALYSIS DATA SHEET
(PAGE 2)

S7-4

LABORATORY NAME: NANCO LABS. INC.
CASE NO: 4961

SAMPLE NO.
BC-119

SEMIVOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 9/20/85
Date Analyzed: 10/07/85
Conc/Dil Factor: 1

CAS Number		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10.0 U	83-32-9	Acenaphthene	10.0 U
108-95-2	Phenol	10.0 U	51-28-5	2,4-Dinitrophenol	50.0 U
62-53-3	Aniline	10.0 U	100-02-7	4-Nitrophenol	50.0 U
111-44-4	bis(-2-Chloroethyl)Ether	10.0 U	132-64-9	Dibenzofuran	10.0 U
95-57-8	2-Chlorophenol	10.0 U	121-14-2	2,4-Dinitrotoluene	10.0 U
541-73-1	1,3-Dichlorobenzene	10.0 U	606-20-2	2,6-Dinitrotoluene	10.0 U
106-46-7	1,4-Dichlorobenzene	10.0 U	84-66-2	Diethylphthalate	10.0 U
100-51-6	Benzyl Alcohol	10.0 U	7005-72-3	4-Chlorophenyl-phenylether	10.0 U
[illegible]0-1	1,2-Dichlorobenzene	10.0 U	86-73-7	Fluorene	10.0 U
[illegible]8-7	2-Methylphenol	10.0 U	100-01-6	4-Nitroaniline	50.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	10.0 U	534-52-1	4,6-Dinitro-2-Methylphenol	50.0 U
106-44-5	4-Methylphenol	10.0 U	86-30-6	N-Nitrosodiphenylamine (1)	10.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	10.0 U	101-55-3	4-Bromophenyl-phenylether	10.0 U
67-72-1	Hexachloroethane	10.0 U	118-74-1	Hexachlorobenzene	10.0 U
98-95-3	Nitrobenzene	10.0 U	87-86-5	Pentachlorophenol	50.0 U
78-59-1	Isophorone	10.0 U	85-01-8	Phenanthrene	10.0 U
88-75-5	2-Nitrophenol	10.0 U	120-12-7	Anthracene	10.0 U
105-67-9	2,4-Dimethylphenol	10.0 U	84-74-2	Di-n-Butylphthalate	10.0 U
65-85-0	Benzoic Acid	50.0 U	206-44-0	Fluoranthene	10.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	10.0 U	92-87-5	Benzidine	80.0 U
120-83-2	2,4-Dichlorophenol	10.0 U	129-00-0	Pyrene	10.0 U
120-82-1	1,2,4-Trichlorobenzene	10.0 U	85-68-7	Butylbenzylphthalate	10.0 U
91-20-3	Naphthalene	10.0 U	91-94-1	3,3'-Dichlorobenzidine	20.0 U
106-47-8	4-Chloroaniline	10.0 U	56-55-3	Benzo(a)Anthracene	10.0 U
87-68-3	Hexachlorobutadiene	10.0 U	117-81-7	bis(2-Ethylhexyl)Phthalate	4.2 J
59-50-7	4-Chloro-3-Methylphenol	10.0 U	218-01-9	Chrysene	10.0 U
91-57-6	2-Methylnaphthalene	10.0 U	117-84-0	Di-n-Octyl Phthalate	10.0 U
77-47-4	Hexachlorocyclopentadiene	10.0 U	205-99-2	Benzo(b)Fluoranthene	10.0 U
88-06-2	2,4,6-Trichlorophenol	10.0 U	207-08-9	Benzo(k)Fluoranthene	10.0 U
95-95-4	2,4,5-Trichlorophenol	50.0 U	50-32-8	Benzo(a)Pyrene	20.0 B
91-58-7	2-Chloronaphthalene	10.0 U	193-39-5	Indeno(1,2,3-cd)Pyrene	10.0 U
88-74-4	2-Nitroaniline	50.0 U	53-70-3	Dibenz(a,h)Anthracene	10.0 U
131-11-3	Dimethyl Phthalate	10.0 U	191-24-2	Benzo(g,h,i)Perylene	10.0 U
208-96-8	Acenaphthylene	10.0 U			
[illegible]09-2	3-Nitroaniline	50.0 U			

(1) - Cannot be separated from diphenylamine

ARI00312

97-5

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SAMPLE NUMBER
CC-119

LABORATORY NAME: NANCO LABS, INC.
CASE NO: 4961

PESTICIDE/PCBs

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 9/20/85
Date Analyzed: 9/29/85
Conc/Dil Factor ----------> 1

CAS Number		(ug/l) or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.10 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.00 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.00 U
11096-82-5	Aroclor-1260	1.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

AR100313

Vs 1000 or Ws _____ Vt 10000 Vi _____

FORM I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
MCC-701

Date: 11-20-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME: United States Testing Company, Inc.

CASE NO.: 5110

SOW NO.: 784

LAB SAMPLE ID. NO.: 76228-1

QC REPORT NO.: B1

Elements Identified and Measured

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	11600	13	Magnesium P	[738] E
2	Antimony P	19 U K	14	Manganese P	161 K
3	Arsenic F	12	15	Mercury	0.5
4	Barium P	198 *	16	Nickel P	55
5	Beryllium P	[0.8]	17	Potassium P	[640]
6	Cadmium P	6.7 *	18	Selenium F	2.9 U
7	Calcium P	12 U	19	Silver P	46 K *
8	Chromium P	1.8 U K	20	Sodium P	15 U
9	Cobalt P	2.0 U	21	Thallium F	[4.4] K
10	Copper P	47900	22	Tin F	59 ~~5.9~~ U K E
11	Iron P	26600	23	Vanadium P	[30]
12	Lead P	1590	24	Zinc P	951 K
	Cyanide	1.5 U		Percent Solids (%)	82

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: AR100314

Lab Manager

FORM I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
MCC-702

Date: 11-20-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME: United States Testing Company, Inc.

CASE NO.: 5110

SOW NO.: 764

LAB SAMPLE ID. NO.: 76228-2

QC REPORT NO.: B1

Elements Identified and Measured

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	10500	13	Magnesium P	[2200] E
2	Antimony P	22 U R	14	Manganese P	1840 R
3	Arsenic F	8.6	15	Mercury	0.1 U
4	Barium P	204	16	Nickel P	182
5	Beryllium P	19	17	Potassium P	[1160]
6	Cadmium P	17	18	Selenium F	3.4 U
7	Calcium P	4450	19	Silver P	2.8 U
8	Chromium P	2.1 U R	20	Sodium P	[1350]
9	Cobalt P	[14]	21	Thallium F	3.3 U R
10	Copper P	7470	22	Tin F	7.0 U R
11	Iron P	21800	23	Vanadium P	[21]
12	Lead P	3270	24	Zinc P	34700 R
	Cyanide	1.8 U		Percent Solids (%)	70

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: AR100315

Lab Manager

FORM I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
MCC-703

Date: 11-20-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME: United States Testing Company, Inc.

CASE NO.: 5110

SOW NO.: 784

LAB SAMPLE ID. NO.: 76228-3

QC REPORT NO.: B1

Elements Identified and Measured

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	14600	13	Magnesium P	[1240] E
2	Antimony P	18 U R	14	Manganese P	980 R
3	Arsenic F	7.8	15	Mercury	0.1 U
4	Barium P	[95] *	16	Nickel P	[17]
5	Beryllium P	0.4 U	17	Potassium P	[1760]
6	Cadmium P	1.1 U *	18	Selenium F	2.9 U E
7	Calcium P	12 U	19	Silver P	2.3 U R*
8	Chromium P	17 R	20	Sodium P	[187]
9	Cobalt P	[15]	21	Thallium F	2.7 U R
10	Copper P	151	22	Tin F	5.8 U R
11	Iron P	28100	23	Vanadium P	31
12	Lead F	35	24	Zinc P	399 R
	Cyanide	1.5 U		Percent Solids (%)	84

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: AR100316

Lab Manager

FORM I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
MCC-704

Date: 11-20-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME: United States Testing Company, Inc.

CASE NO.: 5110

SOW NO.: 784

LAB SAMPLE ID. NO.: 76228-4

QC REPORT NO.: B1

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

ug/kg dry weight

1	Aluminum P	217	13	Magnesium P	[448] E
2	Antimony P	15 U R	14	Manganese P	[5.5] R
3	Arsenic F	1.6 U	15	Mercury	0.1 U
4	Barium P	[1.2] *	16	Nickel P	2.5 U
5	Beryllium P	0.3 U	17	Potassium P	[224]
6	Cadmium P	[1.8] *	18	Selenium F	2.4 U E
7	Calcium P	[20]	19	Silver P	1.9 U R *
8	Chromium P	[4.9] R	20	Sodium P	[161]
9	Cobalt P	1.6 U	21	Thallium F	2.3 U R
10	Copper P	22	22	Tin F	4.8 U R
11	Iron P	192	23	Vanadium P	[4.2]
12	Lead F	0.8 U	24	Zinc P	[9.0] R
	Cyanide	1.2 U		Percent Solids (%)	100

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

AR100317

Lab Manager _____

FORM I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
MCC-705

Date: 11-20-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME: United States Testing Company, Inc.

CASE NO.: 5110

SDW NO.: 784

LAB SAMPLE ID. NO.: 76228-5

QC REPORT NO.: B1

Elements Identified and Measured

Concentration: L

Matrix: Water

ug/l

1	Aluminum P	274	13	Magnesium P	5260
2	Antimony P	31 U	14	Manganese P	[14]
3	Arsenic F	3.1 U	15	Mercury	0.8
4	Barium P	[84]	16	Nickel P	5.0 U
5	Beryllium P	0.6 U	17	Potassium P	[2100]
6	Cadmium P	1.9 U	18	Selenium F	4.8 U
7	Calcium P	21000	19	Silver P	3.9 U
8	Chromium P	2.9 U	20	Sodium P	47200
9	Cobalt P	3.3 U	21	Thallium F	4.6 U
10	Copper P	31	22	Tin F	9.7 U
11	Iron P	113	23	Vanadium P	[18]
12	Lead F	8.2	24	Zinc P	123
	Cyanide	10 U		Percent Solids (%)	NA

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: AR100318

Lab Manager _____

FORM I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
MCC-706

Date: 11-20-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME: United States Testing Company, Inc.

CASE NO.: 5110

SAS NO.: 784

SDG NO.: 76228-6

QC REPORT NO.: B1

Elements Identified and Measured
****

Concentration: L

Matrix: Water

ug/l

1	Aluminum P	2120	13	Magnesium P	12500
2	Antimony P	[57]	14	Manganese P	444
3	Arsenic F	3.1 U	15	Mercury	0.2 U
4	Barium P	283	16	Nickel P	54
5	Beryllium P	0.6 U	17	Potassium P	16400
6	Cadmium P	18	18	Selenium F	4.8 U
7	Calcium P	84000	19	Silver P	3.9 U
8	Chromium P	2.9 U	20	Sodium P	44300
9	Cobalt P	3.3 U	21	Thallium F	4.6 U
10	Copper P	3860	22	Tin F	9.7 U R
11	Iron P	5610	23	Vanadium P	[17]
12	Lead P	1620	24	Zinc P	4740
	Cyanide	10 U		Percent Solids (%)	NA

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

AR100319

Lab Manager _____

Maryann Gambino

FORM I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
MCC-707

Date: 11-20-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME: United States Testing Company, Inc.

CASE NO.: 5110

SOW NO.: 784

LAB SAMPLE ID. NO.: 76228-7

QC REPORT NO.: B1

Elements Identified and Measured
****

Concentration: L

Matrix: Water

ug/l

1	Aluminum P	252	13	Magnesium P	[4760]
2	Antimony P	31 U	14	Manganese P	101
3	Arsenic F	3.1 U	15	Mercury	0.2 U
4	Barium P	[91]	16	Nickel P	[5.1]
5	Beryllium P	0.6 U	17	Potassium P	13800
6	Cadmium P	1.9 U	18	Selenium F	4.8 U E
7	Calcium P	20500	19	Silver P	3.9 U
8	Chromium P	2.9 U	20	Sodium P	225000
9	Cobalt P	3.3 U	21	Thallium F	4.6 U
10	Copper P	65	22	Tin F	9.7 U R
11	Iron P	259	23	Vanadium P	[4.1]
12	Lead F	88	24	Zinc P	383
	Cyanide	10 U		Percent Solids (%)	NA

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: AR100320

Lab Manager _____

FORM I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
MCC-708

Date: 11-20-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME: United States Testing Company, Inc.

CASE NO.: 5110

SOW NO.: 784

LAB SAMPLE ID. NO.: 76228-8

QC REPORT NO.: B1

Elements Identified and Measured
****

Concentration: L

Matrix: Water

ug/l

1	Aluminum P	28100	13	Magnesium P	~~40000~~ 91100
2	Antimony P	31 U	14	Manganese P	~~2950~~ 5920
3	Arsenic F	3.1 U	15	Mercury	0.8
4	Barium P	[199]	16	Nickel P	~~[29]~~ 65
5	Beryllium P	6.2	17	Potassium P	~~6190~~ 12600
6	Cadmium P	24	18	Selenium F	4.8 UE
7	Calcium P	25100	19	Silver P	3.9 U
8	Chromium P	529	20	Sodium P	~~132000~~ 263000
9	Cobalt P	[30]	21	Thallium F	4.6 U
10	Copper P	7120	22	Tin F	9.7 UR
11	Iron P	794000	23	Vanadium P	~~3.1 U~~ [6.0]
12	Lead P	2030	24	Zinc P	~~5610~~ 11600
	Cyanide	10 U		Percent Solids (%)	NA

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: AR100321

Lab Manager _____

FORM I

. EPA Contract Laboratory Program
ple Management Office
. Box 818 - Alexandria, VA 22313
/557-2490 FTS: 8-557-2490

EPA Sample No.
MCC-890

Date: 11-20-85

INORGANIC ANALYSIS DATA SHEET

NAME: United States Testing Company, Inc.

CASE NO.: 5110

NO.: 784

SAMPLE ID. NO.: 76228-9

QC REPORT NO.: B1

Elements Identified and Measured

ncentration: L

trix: Water

ug/l

1	Aluminum P	[112]	13	Magnesium P	15400
2	Antimony P	31 U	14	Manganese P	[8.2]
3	Arsenic F	3.1 U	15	Mercury	0.3
4	Barium P	[42]	16	Nickel P	5.0 U
5	Beryllium P	0.6 U	17	Potassium P	[1420]
6	Cadmium P	1.9 U	18	Selenium F	4.8 UE
7	Calcium P	47400	19	Silver P	3.9 U
8	Chromium P	2.9 U	20	Sodium P	[4310]
9	Cobalt P	3.3 U	21	Thallium F	4.6 U
10	Copper P	434	22	Tin F	148 R
11	Iron P	175	23	Vanadium P	[8.6]
12	Lead P	1450	24	Zinc P	212
	Cyanide	10 U		Percent Solids (%)	NA

or reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes xplaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

omments:

AR100322

Lab Manager

Maryann Gambino

FORM I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
MCC-891

Date: 11-20-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME: United States Testing Company, Inc.

CASE NO.: 5110

SOW NO.: 784

LAB SAMPLE ID. NO.: 76228-10

QC REPORT NO.: B1

Elements Identified and Measured

Concentration: L

Matrix: Water

ug/l

1	Aluminum P	[41]	13	Magnesium P	[26]
2	Antimony P	31 U	14	Manganese P	[2.3]
3	Arsenic F	3.1 U	15	Mercury	0.6
4	Barium P	[6.8]	16	Nickel P	[6.1]
5	Beryllium P	0.6 U	17	Potassium P	[160]
6	Cadmium P	1.9 U	18	Selenium F	4.8 U E
7	Calcium P	[29]	19	Silver P	3.9 U
8	Chromium P	2.9 U	20	Sodium P	[169]
9	Cobalt P	3.3 U	21	Thallium F	4.6 U
10	Copper P	4.5 U	22	Tin F	9.7 U R
11	Iron P	[76]	23	Vanadium P	[3.6]
12	Lead F	31	24	Zinc P	36
	Cyanide	10 U		Percent Solids (%)	NA

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: AR100323

Lab Manager

FORM I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
MCC-892

Date: 11-20-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME: United States Testing Company, Inc.

CASE NO.: 5110

SOW NO.: 784

LAB SAMPLE ID. NO.: 76228-11

QC REPORT NO.: B1

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum	P	11800		
2	Antimony	P	23 U R		
3	Arsenic	F	19		
4	Barium	P	563 ✳		
5	Beryllium	P	[1.5]		
6	Cadmium	P	11 ✳		
7	Calcium	P	19700		
8	Chromium	P	2.2 U R		
9	Cobalt	P	[13]		
10	Copper	P	2080		
11	Iron	P	27300		
12	Lead	P	4750		
	Cyanide		1.9 U		
13	Magnesium	P	[1920] E		
14	Manganese	P	534 R		
15	Mercury		0.1 U		
16	Nickel	P	85		
17	Potassium	P	[1470]		
18	Selenium	F	3.6 U E		
19	Silver	P	2.9 U R ✳		
20	Sodium	P	[136]		
21	Thallium	F	3.4 U R		
22	Tin	F	~~2.3 UR~~ 104 R		
23	Vanadium	P	[24]		
24	Zinc	P	5040 R		
	Percent Solids (%)		67		

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: AR100324

Lab Manager _____

Narayan Gambhir

FORM I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
MCC-893

Date: 11-20-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME: United States Testing Company, Inc.

CASE NO.: 5110

OW NO.: 784

LAB SAMPLE ID. NO.: 76228-12

QC REPORT NO.: B1

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	9750	13	Magnesium P	[1410] E
2	Antimony P	19 U R	14	Manganese P	1230 R
3	Arsenic F	10	15	Mercury	0.1 U
4	Barium P	143*	16	Nickel P	62
5	Beryllium P	8.1	17	Potassium P	[863]
6	Cadmium P	21*	18	Selenium F	3.0 U E
7	Calcium P	[106]	19	Silver P	2.4 U K*
8	Chromium P	1.8 U R	20	Sodium P	[725]
9	Cobalt P	[15]	21	Thallium F	2.9 U R
10	Copper P	4010	22	Tin F	34 R
11	Iron P	18800	23	Vanadium P	[16]
12	Lead P	1910	24	Zinc P	30000 R
	Cyanide	1.6 U		Percent Solids (%)	80

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: AR100325

Lab Manager _____

FORM I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
MCC-894

Date: 11-20-85

INC IC ANALYSIS DATA SHEET

LAB NAME: United States Testing Company, Inc.

CASE NO.: 5110

SOW NO.: 784

LAB SAMPLE ID. NO.: 76228-13

QC REPORT NO.: B1

Elem s Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	31900	13	Magnesium P	4650 E
2	Antimony P	18 U R	14	Manganese P	7570 R
3	Arsenic F	18	15	Mercury	0.1 U
4	Barium P	638 *	16	Nickel P	482
5	Beryllium P	106	17	Potassium P	[1520]
6	Cadmium P	16 *	18	Selenium F	2.8 U E
7	Calcium P	6860	19	Silver P	2.3 U K *
8	Chromium P	1.7 U R	20	Sodium P	32800
9	Cobalt P	[20]	21	Thallium F	2.7 U R
10	Copper P	31500	22	Tin F	[7.1] R
11	Iron P	39700	23	Vanadium P	[28]
12	Lead P	7860	24	Zinc P	193900 R
	Cyanide	1.5 U		Percent Solids (%)	85

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Comments:

AR100326

Lab Manager

FORM I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
MCC-895

Date: 11-20-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME: United States Testing Company, Inc.

CASE NO.: 5110

SOW NO.: 784

LAB SAMPLE ID. NO.: 76228-14

QC REPORT NO.: B1

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum	P	9560		
2	Antimony	P	20 U R		
3	Arsenic	F	[5.5]		
4	Barium	P	134 *		
5	Beryllium	P	16		
6	Cadmium	P	12 *		
7	Calcium	P	[2510]		
8	Chromium	P	1.9 U R		
9	Cobalt	P	[12]		
10	Copper	P	7780		
11	Iron	P	19300		
12	Lead	P	2620		
	Cyanide		1.6 U		
13	Magnesium	P	[2100] E		
14	Manganese	P	1620 R		
15	Mercury		0.1 U		
16	Nickel	P	155		
17	Potassium	P	[1150]		
18	Selenium	F	3.2 U E		
19	Silver	P	2.6 U R *		
20	Sodium	P	3500		
21	Thallium	F	3.0 U R		
22	Tin	F	6.4 U R		
23	Vanadium	P	[17]		
24	Zinc	P	34400 R		
	Percent Solids (%)		76		

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: AR100327

Lab Manager _____

FORM I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
MCC-896

Date: 11-20-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME: United States Testing Company, Inc.

CASE NO.: 5110

SOW NO.: 784

LAB SAMPLE ID. NO.: 76228-15

QC REPORT NO.: B1

Elements Identified and Measured

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	4590	13	Magnesium P	[1330] E
2	Antimony P	38 U R	14	Manganese P	599 R
3	Arsenic F	18	15	Mercury	0.2 U
4	Barium P	[88] *	16	Nickel P	70
5	Beryllium P	[1.4]	17	Potassium P	[995]
6	Cadmium P	12 *	18	Selenium F	6.0 U E
7	Calcium P	6860	19	Silver P	4.9 U K*
8	Chromium P	3.6 U R	20	Sodium P	[549]
9	Cobalt P	4.1 U	21	Thallium F	5.8 U R
10	Copper P	6690	22	Tin F	[41] R
11	Iron P	10600	23	Vanadium P	[19]
12	Lead P	~~10400~~ 2390	24	Zinc P	10300 R
	Cyanide	3.1 U		Percent Solids (%)	40

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

AR100328

Lab Manager

Mamuana Gambino

FORM I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
MCC-897

Date: 11-20-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME: United States Testing Company, Inc.

CASE NO.: 5110

SOW NO.: 784

LAB SAMPLE ID. NO.: 76228-16

QC REPORT NO.: B1

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum	P	8970		
2	Antimony	P	16 U R		
3	Arsenic	F	17		
4	Barium	P	[65]*		
5	Beryllium	P	[0.6]		
6	Cadmium	P	8.3*		
7	Calcium	P	6620		
8	Chromium	P	1.5 U R		
9	Cobalt	P	[4.5]		
10	Copper	P	4140		
11	Iron	P	18900		
12	Lead	P	4340		
	Cyanide		1.3 U		
13	Magnesium	P	3520 E		
14	Manganese	P	294 R		
15	Mercury		0.1 U		
16	Nickel	P	72		
17	Potassium	P	[1790]		
18	Selenium	F	2.5 UE		
19	Silver	P	2.0 UR*		
20	Sodium	P	[907]		
21	Thallium	F	2.4 UR		
22	Tin	F	[11] R		
23	Vanadium	P	29		
24	Zinc	P	3820 R		
	Percent Solids (%)		96		

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: AR100329

Lab Manager

Maryann Gambino

FORM I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
MCC-898

Date: 11-20-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME: United States Testing Company, Inc.

CASE NO.: 5110

SOW NO.: 784

LAB SAMPLE ID. NO.: 76228-17

QC REPORT NO.: B1

Elements Identified and Measured

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	15100	13	Magnesium P	[2140] E
2	Antimony P	21 U R	14	Manganese P	1110 R
3	Arsenic F	9.7	15	Mercury	0.1 U
4	Barium P	[119]	16	Nickel P	30
5	Beryllium P	[1.9]	17	Potassium P	[2360]
6	Cadmium P	55	18	Selenium F	~~mg/3.3 U~~ 24
7	Calcium P	13 U	19	Silver P	2.7 U R
8	Chromium P	2.0 U R	20	Sodium P	[667]
9	Cobalt P	[15]	21	Thallium F	3.2 U R
10	Copper P	1460	22	Tin F	6.7 U R
11	Iron P	36300	23	Vanadium P	[26]
12	Lead P	3360	24	Zinc P	25300 R
	Cyanide	1.7 U		Percent Solids (%)	72

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

AR100330

Lab Manager

Maryann Gambino

FORM I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
MCC-899

Date: 11-20-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME: United States Testing Company, Inc.

CASE NO.: 5110

SOW NO.: 784

LAB SAMPLE ID. NO.: 76228-18

QC REPORT NO.: B1

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	[20]	13	Magnesium P	[509] E
2	Antimony P	114 R	14	Manganese P	485 R
3	Arsenic F	1.6 U	15	Mercury	3.6
4	Barium P	[8.8]*	16	Nickel P	[12]
5	Beryllium P	[1.3]	17	Potassium P	[117]
6	Cadmium P	718 *	18	Selenium F	~~2.5 U~~ 25
7	Calcium P	10 U	19	Silver P	17 R*
8	Chromium P	1.5 U R	20	Sodium P	[198]
9	Cobalt P	1.7 U	21	Thallium F	2.4 UR
10	Copper P	5890	22	Tin F	[11] R
11	Iron P	25900	23	Vanadium P	1.6 U
12	Lead P	70800	24	Zinc P	417900 R
	Cyanide	1.3 U		Percent Solids (%)	97

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

AR100331

Lab Manager

L

FORM I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
MCC-900

Date: 11-20-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME: United States Testing Company, Inc.

CASE NO.: 5110

SOW NO.: 784

LAB SAMPLE ID. NO.: 76228-19

QC REPORT NO.: B1

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	10500	13	Magnesium P	[935] E
2	Antimony P	17 U R	14	Manganese P	1540 R
3	Arsenic F	7.8	15	Mercury	0.1 U
4	Barium P	200 *	16	Nickel P	68
5	Beryllium P	[1.8]	17	Potassium P	[618]
6	Cadmium P	19 *	18	Selenium F	~~2.7 U~~ 17
7	Calcium P	11 U	19	Silver P	15 R*
8	Chromium P	1.6 U R	20	Sodium P	14 U
9	Cobalt P	[13]	21	Thallium F	2.6 U R
10	Copper P	6460	22	Tin F	5.4 U R
11	Iron P	21800	23	Vanadium P	[20]
12	Lead P	3410	24	Zinc P	3880 R
	Cyanide	1.4 U		Percent Solids (%)	90

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

AR100332

Lab Manager

The sampling proceeded from areas of suspected low contamination to areas of suspected high contamination in an effort to minimize cross-contamination between samples. The following is the order in which the areas were sampled: 5, 3, 8, 4, 6, pit 12, pit 11, 1 and 2. From each sample area, two (2) samples were taken 6-10 feet apart (samples A and B). These samples were taken by pushing a three (3) inch coring device two (2) inches into the soil lifting it out, moving over a foot and again pushing it in two inches deep. Two (2) backhoe pits were also dug and sampled using the same sampling device but only one (1) sample was taken from each. Pit #11 was sampled at 26 inches in depth and pit #12 was sampled at 22" in depth. Each sample was mixed with a spatula, stones removed and then split between SITKIN and DER representatives. The sampling jars were glass and had been cleaned using sparkleen, rinsed with distilled water, rinsed with laboratory grade acetone and then given a final rinse with pesticide grade acetone. The tops were covered with aluminum foil and the cap placed on over the foil. After each sampling, the coring device, pans and spatulas were given a brushing in distilled water, two rinses in laboratory grade acetone and then a final rinse of pesticide grade acetone. The apparatus was then wrapped in aluminum foil to prevent contamination. Random sample numbers were assigned to each sample.

The two backhoe pits were sampled at the top of the fragipan (Bx1) by digging away the soil above so that the coring device could stand nearly vertical. The top of the fragipan was chosen for sampling because this would be the point at which the downward vertical movement of water would be impeded and forced to move laterally across the top of this pan. Any movement, then of PCB's should have readily showed up at this point. The following are the descriptions of the soil profiles taken from the pits. The descriptions were made by Bill Hanczar.

Pit #11 - East Wall, Slope - 15%

A_1 0-4" very dark gray (10 yr. 3/4) loam; weak granular structure; very friable; 0-10% sandstone fragments; clear wavy boundary.

Note - other scraps of metal, wood and porcelain were present in this layer.

A_2 4-8" dark grayish brown (10 yr. 4/2) and strong brown (7.5 yr. 5/6) sandy loam; moderate platy structure; friable; 0-10% sandstone fragments; abrupt wavy boundary.

B_2 8-24" strong brown (7.5 yr. 5/8) clay loam; weak blocky structure; friable; 0-10% sandstone fragments.

B_{x1} 24-32" strong brown (7.5 yr. 5/6) heavy sandy loam with common distinct and prominent mottles and streaks of pale brown, strong brown (7.5 5/8) and pinkish gray; many black manganese stains on ped faces; weak blocky structure; firm to very firm; 0-10% sandstone fragments.

AR100333

B_{x2} 32-47" yellowish red (5 yr. 5/8) clay loam with many distinct and [illegible] mottles and streaks of pale brown, strong brown (7.5 5/8) and pinkish gray; weak platy parting to weak blocky; very firm; [illegible] percent stone fragments.

Pit #12 - North end of pit, slope - 8%

A_1 0-12" dark brown silt loam; moderate granular structure; friable; 0-10% stone fragments.

B_2 12-20% strong brown (7.5 yr 5/6) light silty clay loam with many distinct mottles of pale brown and strong brown (7/5 yr. 5/8), weak platy structure parting to weak blocky structure; slightly firm; 0-10% sandstone fragments.

11 B_{x2} 32-52" dark yellowish brown (10 yr. 4/6) sandy loam with many distinct mottles of strong brown (7.5 5/8) and pale brown; massive; very firm; 0-10% gravel fragments.

- Water present at 52" inches.

ANALYTICAL PROCEDURES

The analytical procedure set forth in the writer's letter of March 19, 1979 to Dr. David Kurtz (copy enclosed) was followed except for the following. Step 2 - the lumps were lightly crushed in the tin used for drying. Step 8 - the samples were analyzed in order by area not random number. Since the writer sampled the soil and ran the extractions, the value of analyzing in random number order was lost due to familiarity with the samples. It was also found to be easier analytically for the gas chromatograph (GC) operate

Step 12 - all the samples were given a Florisil clean-up. Step 14 - recoveries were made on samples 12 and 22 at 5 ppm and 2 ppm respectively. This was done to accomodate GC operator in preparing the spike solutions and in the interest of time. The extraction was done according to the procedure outlined in the EPA procedure for PCB analysis of soils and house dust (copy enclosed) with the exceptions noted above and in the March 19, letter.

RESULTS AND DISCUSSION

The test results are presented in Table I and are listed by individual and total PCB components. With the exception of Area 6, the data seems to show large differences between samples A and B in each sampling area, over 100% differences in some cases. This, however, was not unexpected considering the operational practice of dumping the liquids and oils, the number and types of liquids spilled and the possible movement by the wind and flood waters. Any of these factors could produce the analytical difference in samples taken 6-10 feet apart.

AR100334

It is readily apparent that the area of highest contamination is Area 1 at the top of the slope or, primary work area, and decreases progressively [illegible] slope to Area 2, then Area 4 and Area 6. PCB's are present in Areas 3, 5, and [illegible] but at greatly reduced quantities from the primary work area. These three areas are all east of the primary work area and would not be affected by liquids dumped in Area 1, except possibly through wind movement or flooding. It is also apparent from pits 11 and 12 that no migration or vertical movement of the PCB's has occurred into the soil profile. The values of samples A and B in Area 6, 810 and 830 respectively, are surprisingly close. This is very likely the result of surface waters carrying well mixed PCB contaminated sediment to this central point.

CONCLUSIONS AND RECOMMENDATIONS

The results of the data indicate: that Areas 1, 2, 4, and 6 are the principal areas of contamination; that Areas 3, 5, and 8 were most probably contaminated by wind or flooding due to their proximity to the other contaminated areas; that no subsurface contamination has occurred and it can be considered very likely that most of the surrounding and adjacent lands probably within a 1,000-2,000 foot radius have been contaminated as well by PCB's but at greatly reduced amounts.

Research on plant uptake of PCB's, occurrence in the food-chain and safe levels in the soils has not been fully studied or understood. A recommendation by EPA that sewage sludge be limited to 10 ppm of PCB's translates into 0.1 ppm (100 ppb) in the soil if applied at a rate of 10 tons per acre. At these conservative rates, no adverse effects to the food-chain is expected to occur. The main work area (Area 1, 2, 4) and Area 6 in comparison to the .1ppm soil value are 10 to 60 times greater while the adjacent areas (3, 5, and 8) fall just short or are right at this maximum recommended level.

In light of the above, the following actions are recommended:

1. Areas 1, 2, and 4 be stripped of the top four (4) inches of the soil, and deposited at an approved site.

2. The area be backfilled using 6-12 inches of top soil and revegetated.

3. Area 6 should also be filled in with soil, revegetated and surface water directed around the site.

4. That all barrels, trash and junk be taken to an approved landfill.

5. That the other areas that are accessible be disced and revegetated.

6. That deed restrictions be placed on the site prohibiting use of the land for agriculture development.

7. Any other portions of the SITKIN property where oil has been spilled be stripped to four inches, backfilled with 6-12 inches of top soil and revegetated.

AR100335

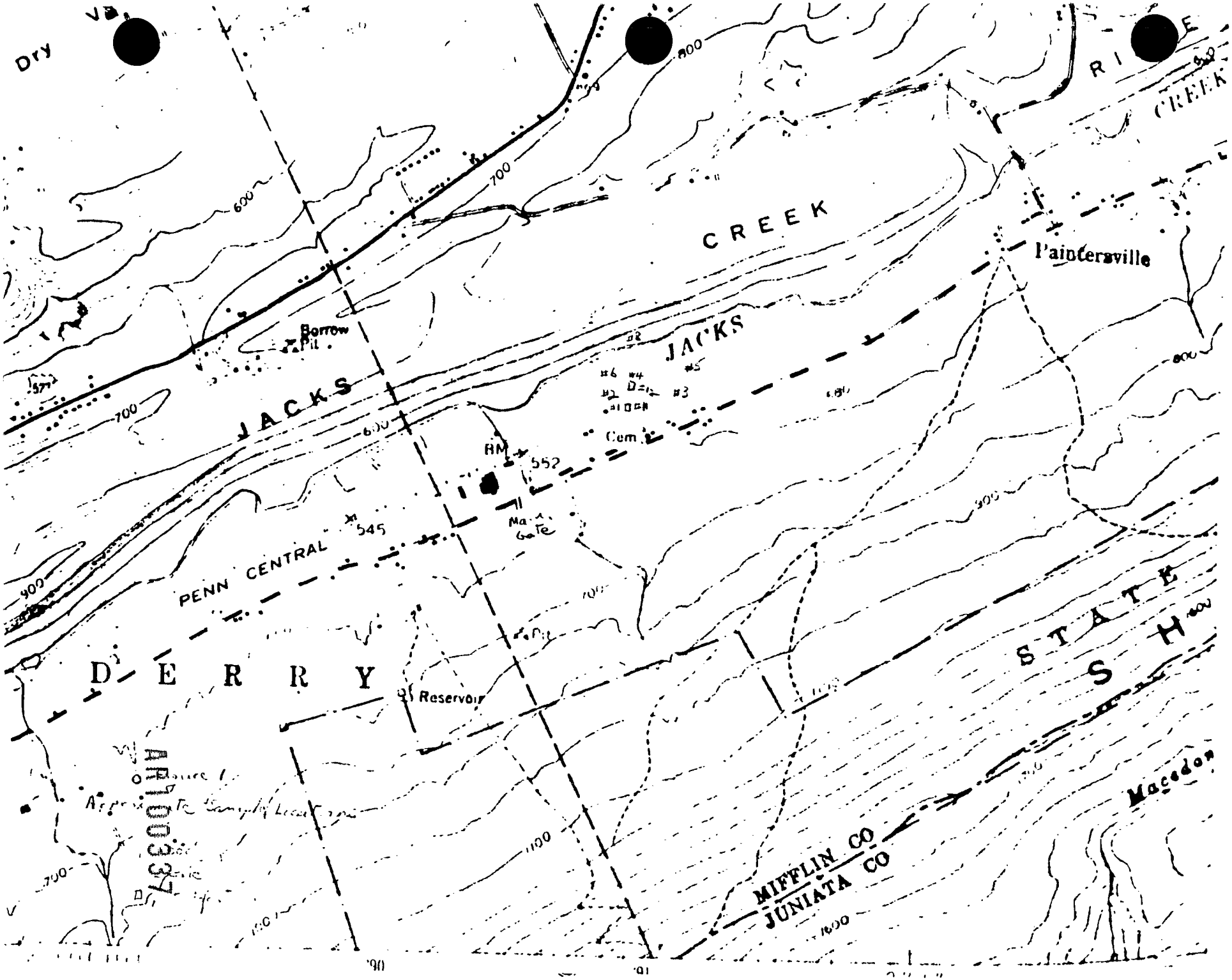
SOIL SAMPLE TEST RESULTS
FOR INDIVIDUAL AND TOTAL PCB COMPONENTS (PPB).

Sample Area	Sample	Aroclor 1242	Aroclor 1254	Aroclor 1260	Total PCB	Remarks
1	A	3700	< 30	1720	5420	Values are averages of 2 tests
	A Dup	2830	< 30	1210	4040	
	B	1580	< 30	5150	6730	Values are averages of 2 tests
2	A	ND *	2400	ND	2400	
	B	ND *	640	≈ 360	≈ 1000	
3	A	ND	54	ND	< 54	
	A Dup	ND	42	ND	< 42	
	B	ND	40	ND	< 40	
4	A	< 30	< 30	2100	2100	
	B	≈ 350	ND	630	≈ 980	
	B Dup	550	< 30	680	1230	
5	A	ND	< 30	ND	< 30	Recovery at 5ppm = 86%
	B	ND	100	< 30	100	
	B Dup	ND	30	ND	< 30	
6	A	520	< 30	290	810	
	B	490	< 30	340	830	
8	A	ND	60	ND	60	
	B	ND	30	ND	30	
Pit #11		ND	ND	ND	ND	Sampled at 26" in depth
Pit #12		ND	ND	ND	ND	Sampled at 22" in depth

* ND = None Detected

Recovery at 2ppm = 8[illegible]

AR100336


Dry
CREEK
JACKS
JACKS
Borrow Pit
Cem
RM
552
545
Main Gate
PENN CENTRAL
DERRY
Reservoir
MIFFLIN CO
JUNIATA CO
STATE
Macedon

APPENDIX F

AR100338

LABORATORY REPORT

SAMPLE NUMBER - 8673103

COLLECTOR - C. GRAY CEC3 COLLECTOR NO - 1327061
ESTAB - BURTON RITTER
CASE NAME - J KRENTMEN & SON
FACILITY - WELL
ID CODE - NONE WQN STATION NUMBER - 000
SAMPLING DATE - 3/10/86 TIME - 10:46 LAT - 00:00:00.0 LONG - 00:00:00.0

TYPE - 00 SOURCE - 00 STD ANAL - 165 RECEIVED ON - 3/11/86
REPORT REVIEWED BY DATE - 3/26/86

STORET	DESCRIPTION		RESULT	CONC	VERIFY BY	VERIFY DATE	COMM CODE
LABORATORY ANALYSIS :							
00080	COLOR PT-CO	<	5.0000	PT/C	G HWS	3/11/86	
00403	PH LAB		7.1000		G MAM	3/12/86	
00410	T ALK CACO3		182.0000	MG/L	G MAM	3/12/86	
00500	RESIDUE TOT		292.0000	MG/L	G RLS	3/13/86	
00515	RES DISS/105		290.0000	MG/L	G RLS	3/12/86	
00615	T NO2-N	<	0.0040	MG/L	G IC3	3/11/86	
00620	T NO3-N		5.2800	MG/L	G IC3	3/11/86	
00900	T HARD CACO3		209.0000	MG/L	G BLF	3/13/86	
00916	CALCIUM		51.6300	MG/L	G PJJ	3/25/86	
00929	SODIUM		9.5000	MG/L	G PJJ	3/24/86	
00940	CHLORIDE		28.0000	MG/L	G IC3	3/11/86	
00945	SO4 TOT	<	10.0000	MG/L	G BLF	3/13/86	
00951	F,TOTAL		0.1000	MG/L	G EVC	3/24/86	
01002	AS,TOTAL	<	4.0000	UG/L	G AFX	3/17/86	
01007	BARIUM	<	500.0000	UG/L	G PJJ	3/24/86	
01027	CD TOT UG/L	<	0.2000	UG/L	G AFX	3/25/86	
01034	CR TOT UG/L	<	4.0000	UG/L	G WPK	3/13/86	
01042	COPPER		60.0000	UG/L	G PJJ	3/24/86	
01045	FE TOT		180.0000	UG/L	G PJJ	3/21/86	
01051	PB,TOTAL		4.0000	UG/L	G AFX	3/11/86	
01055	MANGANESE	<	50.0000	UG/L	G PJJ	3/21/86	
01077	SILVER	<	30.0000	UG/L	G PJJ	3/24/86	
01092	ZINC		30.0000	UG/L	G PJJ	3/24/86	
01147	SE,T AS UG/L	<	6.0000	UG/L	G AFX	3/17/86	
38260	MBAS AS MG/L	<	0.5000	MG/L	G FFV	3/17/86	
71900	MERCURY	<	1.0000	UG/L	G DHH	3/24/86	
82079	TURB	<	1.0000	NTU	G RLS	3/11/86	

SAMPLE COMMENTS

NO SAMPLE COMMENTS

TOTAL NUMBER TEST FOR THIS SAMPLE 27

LABORATORY REPORT

SAMPLE NUMBER - 8672436

COLLECTOR - C. GRAY CECI COLLECTOR NO - 1327060
ESTAB - JOE KRENTZMAN AND SON
CASE NAME -
FACILITY - WELL
ID CODE - NONE WQN STATION NUMBER - 000
SAMPLING DATE - 3/06/86 TIME - 12:40 LAT - 00:00:00.0 LONG - 00:00:00.0

TYPE - 00 SOURCE - 00 STD ANAL - 100 RECEIVED ON - 3/07/86
REPORT REVIEWED BY DATE - 3/24/86

STORET	DESCRIPTION		RESULT	CONC	VERIFY BY	VERIFY DATE	COMM CODE
LABORATORY ANALYSIS :							
01027	CD TOT UG/L		0.3100	UG/L G	AFK	3/12/86	
01034	CR TOT UG/L	<	4.0000	UG/L G	WPX	3/13/86	
01042	COPPER	<	50.0000	UG/L G	PJJ	3/24/86	
01045	FE TOT		100.0000	UG/L G	PJJ	3/21/86	
01051	PB,TOTAL	<	4.0000	UG/L G	AFK	3/12/86	
01055	MANGANESE	<	50.0000	UG/L G	PJJ	3/21/86	
01067	NICKEL	<	50.0000	UG/L G	PJJ	3/24/86	
01092	ZINC		30.0000	UG/L G	PJJ	3/24/86	
01105	AL TOT	<	150.0000	UG/L G	PJJ	3/24/86	

SAMPLE COMMENTS

NO SAMPLE COMMENTS

TOTAL NUMBER TEST FOR THIS SAMPLE 9

WATER AND WASTEWATER REPORT

SAMPLE NUMBER - 8403635

COLLECTOR - JEFF STOUT DMRS COLLECTOR NO - 2316020

ESTAB - KRAFTSMAN

CASE TYPE - SITKIN SMELTING ASSESSMENT

FACILITY - OFFIC BUILDING WELL SEAL INTACT

IC CODE - NONE WQM STATION NUMBER - 000

SAMPLING DATE - 1/31/84 TIME - 10:00 LAT - 00:00:00.0 LONG - 00:00:00.0

TYPE - 00 SOURCE - 00 STD ANAL - 500 RECEIVED ON - 2/01/84

SEAL NO(S) 30157 30158

REPORT REVISED BY DATE - 4/02/84

STORET	DESCRIPTION		RESULT	CONC	VERIFY BY	VERIFY DATE	COMM CODE
LABORATORY ANALYSIS							
00095	SPEC COND		410.0000		G	KWS	2/01/84
00403	PH LAB		7.3000		G	KWS	2/02/84
00515	RES 0180/105		2024.0000	MG/L	G	LCC	2/03/84
00610	T NH3-N		0.0300	MG/L	G	ICB	2/02/84
00615	T NO2-N		0.0040	MG/L	G	ICB	2/02/84
00620	T NO3-N		0.3100	MG/L	G	ICB	2/02/84
00625	T KJELD N	<	0.2000	MG/L	G	RLS	3/27/84
00940	CHLORIDE		10.0000	MG/L	G	ICB	2/02/84
00945	SO4 TOT		3-.0000	MG/L	G	BLF	2/06/84
01027	CD TOT UG/L		0.4200	UG/L	G	BHL	2/06/84
01034	CR TOT UG/L		20.0000	UG/L	G	WET	2/09/84
01042	CU TOT UG/L		30.0000	UG/L	G	WET	2/09/84
01045	FE TOT		40.0000	UG/L	G	WET	2/09/84
01051	PB,TOTAL		5.3000	UG/L	G	BHL	2/06/84
01055	MN TOTAL		10.0000	UG/L	G	WET	2/09/84
01067	NI,TOTAL		30.0000	UG/L	G	WET	2/09/84
01092	ZN,TOT UG/L		30.0000	UG/L	G	WET	2/09/84
01105	AL,TOTAL	<	150.0000	UG/L	G	WET	2/16/84

SAMPLE COMMENTS

NO SAMPLE COMMENTS

TOTAL NUMBER TEST FOR THIS SAMPLE 15

RECEIVED
MAY 7 1984
DER - Altoona Office

ORIGINAL

APPENDIX G

AR100342

July 13, 1977

Industrial Wastes
Sitkin Smelting & Refining, Inc.
Decatur Township
Mifflin County

Mark A. Roller
Regional Sanitary Engineer
Williamsport Regional Office

Through: Charles E. Gurmo, Chief
Operations Section
Williamsport Regional Office

Leona L. Brehm
Field Supervisor
Lewistown Field Office

On June 13, 1977, Robert C. Young, Geologist; Alice D. Miller, E.P.S.; and I made an inspection of Sitkin Smelting & Refining, Inc. in Decatur Township, Mifflin County. We were accompanied by Mr. J. B. Sitkin and Joseph Burlew, Plant Engineer.

Samples were collected at the routine sampling points. The monitoring wells, Numbers 2, 3, and 4 were sampled. Well No. 1, designated the "upstream" well was not sampled as a truck had flattened the casing pipe.

The oil separator and cooling water discharges were sampled. No oil was present in the separator. A lush growth of bright green algae was observed below these discharges.

The WASCO wire incinerator, located just East of the ball mill waste lagoons, was observed. A pit for scrubber water make-up and recirculation has overflowed within the very recent past. The area between the pit and the lagoon was very mucky and saturated with a gray sludge. A wet weather run, originating across L.R. 44007 from the plant, normally flows between the incinerator and the lagoons. All apparent flow was made up of spillage from the pit.

The gray sludge material was observed throughout the length of the stream bed to its confluence with Jacks Creek (Overlay #16).

The ball mill lagoons were in good shape. Adequate heighth and width of the lagoon walls seemed to preclude any seepage from them.

Dump trucks had been used the previous week to haul zinc oxide from the air scrubber lagoons. Spillage had flowed across an open area towards the oil separator discharge stream. The swampy area (Overlay #15) had large patches of zinc oxide in it.

Old electrical transformers are stored in the easternmost portion of the plant grounds. A crew of workmen drain the oil from the transformers and store it in 55-gallon drums in the yard. The transformers

AR 180343

are then broken open to extract copper plates and wiring. The old oil is used to start the WASCO incinerator at Overlay #6.

The transformer yard gently slopes towards a low area, Sample Point 14, where a natural depression exists.

There were no observed discharges from the precious metals room (Overlay #5). All waters are reportedly recycled.

Chemical analyses are tabulated on the attached pages. As of this writing, several results have not been returned. The one of most interest is the sample collected at the WASCO incinerator pit for metals.

Poly-chlorinated biphenols (PCB) were found, probably as a direct result of the transformer stockpiling. The stockpiled oil contained 10 mg/l, with 0.13 mg/l found below the WASCO incinerator overflow, and 0.20 mg/l in Jacks Creek below the confluence of the tributary.

The battery cutting shed may present problems in the future. Automotive batteries are chopped open to remove the lead plates. Any acid therein drains into a badly corroded concrete pit and then is pumped into plastic drums for either resale or for use in the precious metal extractions.

The Nichols-Herreshoff dryer was not in operation. Collected zinc oxide (transported from the lagoons) was to be dried here, but, due to technical problems, it was not running.

On July 11, 1977, Robert O. Young and I returned to draw more samples after PCB's were detected at several sampling points.

The monitoring wells, the well at the C.M.A. Church, east of the plant, and several stream locations were sampled for PCB's. A pooled area, Point 14, in a depression draining the transformer stockpile area was also sampled.

The brass foundry had shut down around June 30, 1977. The cooling water discharge has been totally eliminated. All pipes were removed from Sample Point 63.

The quench and air scrubber lagoons, 12 and 13 on the Overlay, were filled with surface water.

Conclusions:

The WASCO incinerators are in need of immediate attention. Overflow and eventual discharge of their scrubber water containing PCB and possibly heavy metals should be eliminated.

AR 003444

The transformer stockpile area presents another problem. Oil saturated soils from generally haphazard operation could foreseeably leach oil containing PCB's to the ground water and surface waters through storm runoff.

Recommendations:

It is not known at the present time what the final disposition of the brass foundry will be. While the cooling water discharge has been eliminated, the oil separator will apparently still remain under permit. The oil separator was installed to trap oil dripping from transport trucks unloading at the foundry. Runoff from the general area, containing metals (Sample GC) flows into the separator.

As previously mentioned, the WASCO incinerators need to be put under stricter control of the make-up recirculation pit. Make-up water for these facilities is at times taken from the ball mill lagoon (Sample #15).

Runoff from the transformer stockpile area should be controlled. Perhaps a holding lagoon in the low area sampled on July 11, 1977, could prevent storm runoff from reaching the stream.

Overall, this plant presents a real potential for ground and surface water pollution. Large amounts of acids (from battery operation), exotic organics (PCB's), metals (white metal melt, WASCO incinerators, stockpile, and fall-out), and oils (transport vehicles) are present and could contaminate stream waters.

A Pollution Incident Prevention Plan should be requested to outline preventative measures to control the above contaminates.

ZLB:PAB
Enc. 2

AR100345

MAP NO.	1	2	3	3A	33
STATION DESCRIPTION	Jacks Creek Paintersville Bridge Upstream	Jacks Creek Upstream from Transformers	Station 2.2 Jacks Creek below wet weather run	Wet weather Run at Mouth	Wet weather Run at Railro Tracks
DATE	6/13/77	*7/11/77	6/13/77	6/13 - *7/11	6/13 - *7/11
pH	8.1			7.9	
Spec. Cond.	170			220	
Alkalinity	92			114	
Phosphorus	.05			.05	
Aluminum	.150			.120	
Cadmium	< .01			< .01	
Copper	.01			.01	
Iron	.250			.200	
Manganese	.130			.05	
Nickel	< .01			.02	
Lead	< .05			< .05	
Zinc	< .01			.07	
Total Dissolved Solids	94			166	
Sulfate	10			24	
Chloride	5			7	
PCB		*	0.20	*	0.13 *Repea

AR100346

MAP NO.	3C	4	4A	5	6
STATION DESCRIPTION	WASCO Incinerator Overflow	Unnamed Tributary across L.R. 44007	Unnamed Tributary at ball mill underdrain	Jacks Creek upstream from Separator Discharge	Oil Separator Discharge at Mouth
DATE	6/13/77	6/13/77	6/13/77	6/13/77	6/13/77
pH		8.0	9.1	8.3	8.4
Spec. Cond.		130	200	290	470
Alkalinity		416	334	510	194
Phosphorus		.05	.04	.05	.04
Aluminum		.290	.330	.120	.020
Cadmium		< .01	.01	.01	.025
Copper		< .01	.01	.09	.09
Iron		.360	.390	.21	.05
Manganese		.02	.01	.02	.06
Nickel		.03	< .01	.01	< .01
Lead		< .08	< .05	< .05	.210
Zinc		.05	.01	.03	.510
Total Dissolved Solids		90	126	174	302
Sulfate		12	26	28	40
Chloride		4	9	12	24
PCB					

AR100347

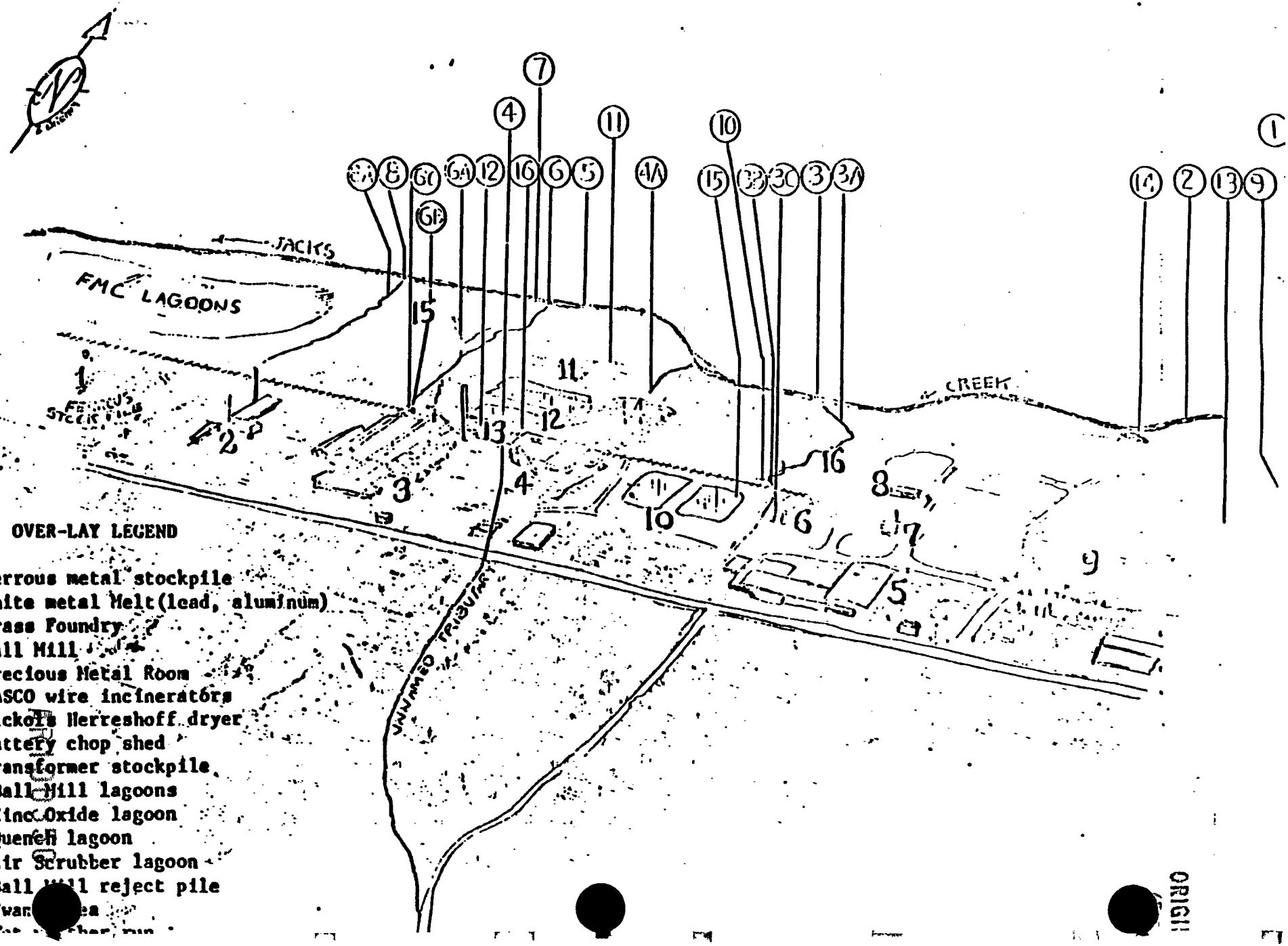
	1	2	3	3A	33	6
	Jacks Creek Painterville Bridge Upstream	Jacks Creek Upstream from Transformers	Station 2.2 Jacks Creek below wet weather run	Wet weather Run at Mouth	Wet weather Run at Railroad Tracks	Oil Separator Discharge at Mouth
	6/13/77	*7/11/77	6/13/77	6/12 - *7/11	6/13 - *7/11	6/13/77
				7.9		8.4
	8.1			280		470
d.	170			114		194
y	92			.05		.04
is	.05					
				.120		.020
	.150			< .01		.025
	< .01			.01		.09
	.01			.200		.05
	.250			.03		.06
	.130			.02		.01
ese	< .01			< .05		.210
l	< .05			.07		510
	< .01					
				166		
l Dissolved Solids	94					
				24		
	10			7		
fate						
loride	5					0.13 *Repeat
				*		
			*		0.20	
CB						

AR100348

ORIGINAL (Red)

MAP NO.	8A	9	10	11	12
STATION DESCRIPTION	Unnamed tributary, approximately 100 yards upstream from mouth	C.M.A. Church Well	Monitoring Well #2	Monitoring Well #3	Monitoring Well #4
DATE	6/13/77	*7/11/77	6/13 - *7/11	6/13 - *7/11	6/13 - *7/11
pH	7.7		9.4	9.0	7.8
Spec. Cond.	1800		2100	650	600
Alkalinity	116		620	506	160
Phosphorus	.04		0.16	0.05	.03
Aluminum	.180		.910	.110	.160
Cadmium	.01		.01	.01	.01
Copper	.05		.240	.04	.10
Iron	.170		19.75	.310	21.0
Manganese	.630		.130	.06	.60
Nickel	.01		.01	.01	.01
Lead	.05		.15	.06	.09
Zinc	.570		.34	.09	.38
Total Dissolved Solids	1218		1598	702	558
Sulfate	400		136	20	109
Chloride	224		259	36	100
PCB		*	*	*	*

AR100349



AR100035

ORIGI

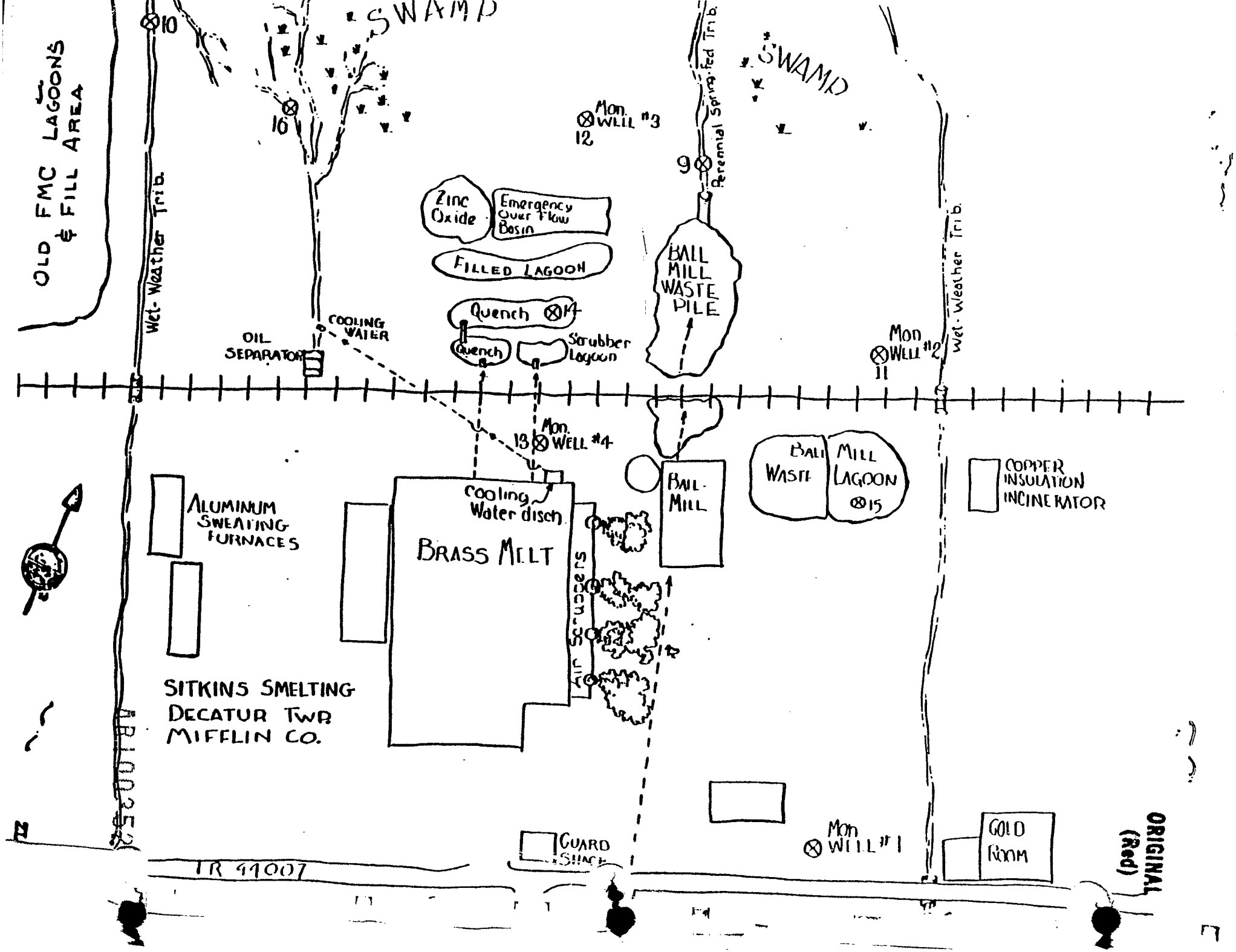
(L)E

ORIGINAL
(RED)

MAP NO.	13	14	15	16
STATION DESCRIPTION	Oil Storage Drums	Pooled Area below transformer stockpile	Ball Mill Lagoon	Zinc Oxide Lagoon
DATE	6/13/77	*7/11/77	6/13/77	6/13/77
pH			10.2	
Spec. Cond.			17000	
Alkalinity			116	
Phosphorus			2.42	
Aluminum			17.75	
Cadmium			< .01	
Copper			13.50	
Iron			.740	
Manganese			.04	
Nickel			.09	
Lead			1.62	
Zinc			1.45	
Total Dissolved Solids			16,973	
Sulfate			1160	
Chloride			1314	
PCB	Approximately 10 mg/l	*		

AR100351

ZLB:PAB


OLD FMC LAGOONS & FILL AREA
SWAMP
SWAMP
Wet-Weather Trib.
Perennial Spring-fed Trib.
Wet-Weather Trib.
10
16
9
Mon. WELL #3
12
Zinc Oxide
Emergency Over Flow Basin
FILLED LAGOON
BALL MILL WASTE PILE
Quench
14
Quench
Scrubber Lagoon
COOLING WATER
OIL SEPARATOR
Mon. WELL #2
11
Mon. WELL #4
13
Cooling Water disch.
BRASS MELT
BALL MILL
BALL MILL WASTE LAGOON
15
COPPER INSULATION INCINERATOR
ALUMINUM SWEATING FURNACES
SCRUBBER
SITKINS SMELTING
DECATUR TWP
MIFFLIN CO.
BRUSH
TR 44007
GUARD SHACK
Mon. WELL #1
GOLD ROOM
ORIGINAL (Red)